



CONSULT/REQUEST TRACKING TECHNICAL MANUAL



Version 3.0

December 1997

February 2001 Update

Department of Veterans Affairs
Technical Services
Computerized Patient Record System Product

Revision History

Originally released	December 1997
Include Patches 1 thru 5	August 1998
Add Patches 6 thru 8, 11, and 12	May 2000
Include Patches 13, 14, 16, and 18	October 2000
Include Patch 15, 19, and 20	February 2001

Table of Contents

<i>Introduction.....</i>	<i>1</i>
Purpose of the Consult/Request Tracking Package	1
Scope of the Manual	1
Audience	1
Overview	2
<i>Package Orientation</i>	<i>3</i>
<i>Implementation and Maintenance</i>	<i>5</i>
Install, Planning, and Implementation Checklist	5
Menu/Option Diagram	5
Define Service Hierarchy	6
Determine Service Functionality.....	9
Set Up Consult Services (SS)	11
Quick Orders.....	17
Service Consults Pending Resolution	21
Service User Management (SU).....	22
Group Update (GU)	29
Print Test Page (TP)	31
Determine Users' Update Authority (UA).....	32
Determine if User is Notification Recipient (UN)	33
Determine Notification Recipients for a Service (NR)	34
Test Default Reason for Request (TD).....	35
List Consult Service Hierarchy (LH).....	37
Copy Prosthetics Services (CP)	38
Duplicate Sub-Service (DS).....	40
Notification Parameters	41
Consult Service Tracking.....	42
Functionality	42
Text Integration Utilities (TIU) Setup	43
Consults Resulting Process	43
Recommended Document Hierarchies.....	45
TIU Setup Options.....	48
TIU Maintenance	52
Correcting Misdirected Results	52
Medicine Interface	54

Procedure Setup.....	54
Linking Med Results to Procedure Request.....	56
Removing Medicine Results from a Request.....	56
Parameters.....	57
<i>Files</i>	<i>60</i>
File Globals.....	61
<i>Exported Menus</i>	<i>65</i>
<i>Cross-References.....</i>	<i>67</i>
<i>Archiving and Purging</i>	<i>73</i>
<i>External Relations.....</i>	<i>77</i>
Private DBIA Agreements	78
<i>Internal Relations.....</i>	<i>79</i>
Package-Wide Variables	79
<i>Package Interface</i>	<i>81</i>
HL7 Fields	81
Order Event Messages.....	84
Front Door – Consults	84
Back Door Consults	87
Orderable Item Updates.....	90
Orderable Item Updates.....	92
Ordering Parameters.....	94
Procedure Calls	94
<i>How to Generate On-Line Documentation</i>	<i>98</i>
Routines	98
Globals	98
Menu/Options.....	99
XINDEX.....	99
<i>Glossary</i>	<i>101</i>
<i>Appendix A: Install, Planning, and Implementation Checklist.....</i>	<i>103</i>
<i>Appendix B: Consult Tracking Worksheets</i>	<i>109</i>
<i>Appendix C: Request Services Distributed with Consults</i>	<i>113</i>
<i>Appendix D: Package Security</i>	<i>117</i>
Service Update and Tracking Security	117
Menu/Option Access.....	118
GMRC MGR menu.....	119
GMRC GENERAL SERVICE USER menu.....	119
GMRC SERVICE TRACKING option	120
GMRC PHARMACY TPN CONSULTS option.....	120

Security Keys.....	120
Service Update Tracking Security	120
Routine Descriptions	122
<i>Appendix C: Algorithms</i>	<i>129</i>
User Authority.....	129
<i>Index.....</i>	<i>130</i>
<i>Index.....</i>	<i>131</i>

Introduction

Purpose of the Consult/Request Tracking Package

The Consult/Request Tracking package (Consults) was developed to improve the quality of patient care by providing an efficient mechanism for clinicians to order consults and requests using Computerized Patient Record System (CPRS) Order Entry, and to permit hospital services to track the progress of a consult order from the point of receipt through its final resolution.

Scope of the Manual

This manual provides technical descriptions of Consults tracking routines, protocols, files, globals, options, security data, menu diagrams and any other information required to effectively set up and use the Consults package.

From time to time improvements are made to the Consults package. The latest information about Consults, as well as the latest version of this manual, is posted on the Consults Web Page at:

vista.med.va.gov/consults

Audience

Information in this manual is technical in nature and is intended to be used by Veterans Affairs Medical Center (VAMC) Information Resource Management Service (IRMS) staff members and Clinical Application Coordinators (CAC's).

Overview

This release of the Consults package is a revision of the Consult/Request Tracking package Version 2.5. It bears the version number 3.0 and is released with CPRS Version 1.0.

The Consults package provides an interface with CPRS Order Entry which permits clerks or clinicians to enter, edit, and review consults and requests within the CPRS package.

Service/Specialty personnel targeted to receive consults may use this package to:

Have consults or requests electronically relayed to them.

Track the service/specialty's activity concerning the consult or request, from the time of its receipt to its final resolution.

Associate Text Integration Utility (TIU) consult reports with the consult request.

When a consult or request is updated on-line to a "completed" or "discontinued" status by the specialty service personnel, the original clinician who requested the order is notified electronically of the order's resolution. The clinician may then use "View Alerts" or the Detailed Display option in either the Consults or CPRS packages to review any comments or results which may be associated with the order's resolution.

Functionality has been provided for IRMS/ADPAC personnel to set up and manage the consult service hierarchy.

A checklist is provided (in Appendix A of this manual) to help you install, plan, and implement the Consults package. Use the checklist in conjunction with the detailed information provided in the **Implementation and Maintenance** section of this manual.

Package Orientation

This technical manual provides IRMS/ADPAC personnel with technical descriptions of Consults routines, files, options, and other necessary information required to effectively implement and use the Consults package.

This manual should assist you in:

Setting up a hierarchy of site specific services/specialties.

Setting up Notification users/teams related to a service, who will be notified when an order is released by CPRS order entry.

Setting up tracking update capabilities for specific services/specialties to track the progress of ordered consults or procedures from receipt to their completion or discontinuance.

Setting up procedures to be used in the resulting process for specified services.



Note: The primary care clinician and clinic clerk add, edit, discontinue and sign capabilities for ordering consults or requests are provided through CPRS V. 1.0. See the *CPRS Clinical Coordinator & User Manual* for descriptions of how to use the CPRS options.

For package-specific user conventions, please refer to the Package Orientation section of the *Consult/Request Tracking User Manual*.

Implementation and Maintenance

Install, Planning, and Implementation Checklist

A checklist is provided to help you install, plan, and implement the Consults package (see Appendix A). Use the checklist in conjunction with the detailed information provided in this "Implementation and Maintenance" section.

Menu/Option Diagram

The tools required to implement and maintain the Consults package are found in the Consult Management [GMRC MGR] menu. The following menu diagram illustrates all of the options distributed with the Consults package.

Consult Management [GMRC MGR]

RPT	Consult Tracking Reports ...
ST	Completion Time Statistics
PC	Service Consults Pending Resolution
CC	Service Consults Completed
CP	Service Consults Completed or Pending Resolution
NU	Service Consults with Consults Numbers
SC	Service Consults By Status
	Print Completion Time Statistics Report
	Print Service Consults by Status
SS	Set up Consult Services
SU	Service User Management
CS	Consult Service Tracking
RX	Pharmacy TPN Consults
GU	Group update of consult/procedure requests
UA	Determine users' update authority
UN	Determine if user is notification recipient
NR	Determine notification recipients for a service
TD	Test Default Reason for Request
LH	List Consult Service Hierarchy
PR	Setup procedures
CP	Copy Prosthetics services
DS	Duplicate Sub-Service
TP	Print Test Page

To get you started placing "CONSULT..." orders via CPRS, the option above which requires immediate attention is the Set up Consult Services (SS) option. Before setting up services, you should define your service hierarchy and determine service functionality.

Define Service Hierarchy

At this point the site must determine which services/specialties should be set up to receive consults and requests. Consults Tracking Service Worksheets, along with descriptions of the type of information that should be recorded in each field on the worksheets, are provided in Appendix B of this manual to assist you in this process.

The Request Services file (#123.5) is distributed with a small selection of services. The hierarchical relationships are not in place upon distribution. **See Appendix C for an example of how these services could be related hierarchically to get you started. Appendix C will:**

Illustrate the file's hierarchy capabilities (similar to the Option file (#19) hierarchy) with "ALL SERVICES" representing the top of the hierarchy.



NOTE: Due to the tight relationship between CPRS orderable items and this file, a service should NEVER be deleted at any point. The best recommendation would be to disable the service and remove it from the ALL SERVICE hierarchy.

The Service/Specialty hierarchy you define can be as complex as needed to meet service requirements at your site. To get started you will probably want to specify a small subset of services/specialties and add to them over a period of time. "ALL SERVICES" needs to be the top entry in the hierarchy.



NOTE: "ALL SERVICES" should be the top hierarchy service. All Services should never be the sub-service of another service.

In order to build the service hierarchy, you will need to know how the service entry in the Request Services file (#123.5) is used. Some services will be used as a GROUPER ONLY and other services may be used for TRACKING ONLY. The SERVICE USAGE field is provided for you to differentiate the services in the hierarchy.

To see your site's hierarchy use the List Consult Service Hierarchy [GMRC LIST HIERARCHY] option.



Hint: If your site is getting an allocation of partition space type of error when ALL SERVICES or another service is specified at the "Select Service/Specialty:" prompt, this is an indication that the hierarchy is set up wrong. This is typically caused by a service being made a sub-service of itself. A service being a sub-service of one of its own sub-services will also manifest this error.

Service Usage Definition

Whenever a value is defined for the SERVICE USAGE field in the Set up Consults Services [GMRC SETUP REQUEST SERVICES] option, the Service entry will NOT be selectable to send consults to in the CPRS ordering process. Instead, entries in this field reserve the service for special uses within the Consults flow of information.

Service Usages cause functioning as follows:

BLANK - Permits consults and procedure requests to be sent to this service. A service may be reset to blank by entering an @ sign.

GROUPEL ONLY - Permits a service to be used for grouping other services together for review purposes, and aids in defining the service hierarchy (e.g., ALL SERVICES, INPATIENT SERVICES, OUTSIDE SERVICES). During the order process, a user selecting a grouper only service will be shown the service hierarchy under that service grouper. A grouper only service should never be a service a consult is sent to.

TRACKING ONLY - Permits a service to be defined in a hierarchy, but does not permit users ordering consults in CPRS to be able to see or select a service marked for TRACKING ONLY (e.g., Psychology may be defined with its Service Usage blank, and its sub-specialty multiple defined with services of which some **or** all may be TRACKING ONLY services. This hierarchy facilitates the situation when a service such as Psychology prefers a common location for all related consults to be sent to. A tracking user at the common location then "Forward(s)" the request to one of the TRACKING ONLY services for completion).

These services are viewable and may be selected directly by update users for that service.

DISABLED - Disabled services are not selectable for ordering or tracking.

An example of a potential hierarchy a user would see when ? or ?? are entered at a “Select Service/Specialty: ALL SERVICES” prompt follows. It includes notations for Service Usage definition examples.

	Select Service/Specialty: ??
GROUPER ➡	ALL SERVICES
GROUPER ➡	INPATIENT SERVICES
	PSYCHIATRY
GROUPER ➡	RMS
	OCCUPATIONAL THERAPY
	PHYSICAL THERAPY
	CORRECTIVE THERAPY
GROUPER ➡	MEDICINE
	CARDIOLOGY
TRACKING ➡	INVASIVE PROCEDURES
TRACKING ➡	ECHO
TRACKING ➡	PACEMAKER
	GASTROENTEROLOGY
	HEMATOLOGY
	PULMONARY
	RHEUMATOLOGY
	ENDOCRINOLOGY
	NEPHROLOGY
	INFECTIOUS DISEASE
	DERMATOLOGY
	NEUROLOGY
	GENERAL MEDICINE
	ONCOLOGY
	GETU
	RENAL
GROUPER ➡	PSYCHOLOGY
	SMOKING CESSATION
	FAMILY/MARRIAGE COUNSELING
	<i>and so forth...</i>

Determine Service Functionality

The primary option needed to set up your hierarchy of services is the Set up Consults Services (SS) option. This option updates the Request Services file (#123.5).

You can enable the following functionality, depending on how much information you define for each hospital service in the Request Services file (#123.5).

Functionality you define may vary by Service/Specialty. Also, functionality may or may not be inherited, depending on the setting of the PROCESS PARENTS FOR UPDATES (.07) and PROCESS PARENTS FOR NOTIFS (.08) fields. If a child service has a Yes in these fields, then parents are checked for the appropriate actions. If all services are set to Yes, then all services are checked to the top of the service hierarchy. Alternately, some services can be marked Yes and others marked No. In this case the hierarchy is checked until a No is encountered.

Two options provided in the Consult Management [GMRC MGR] menu option permit definition and maintenance of this functionality. All of the fields below may be updated using the Set Up Consult Services [GMRC SETUP REQUEST SERVICES] option. For ongoing maintenance of service users specified in 3 and 4 below, use the Service User Management [GMRC SERVICE USER MGMT] option.

FUNCTIONALITY ENABLED	RELATED FIELDS THAT MAY BE COMPLETED	
	Field #	Field Name
1. Ordering consults from the "ALL SERVICES" hierarchy in CPRS and Review of Consults via the Consults options distributed to users.	.01 2 10	<ul style="list-style-type: none">NAMESERVICE USAGESUB-SERVICE/SPECIALTY (multiple)
2. Automatic print of a Consultation Form (SF 513) at the service receiving the consult when CPRS order entry releases the order.	123.09	<ul style="list-style-type: none">SERVICE PRINTER

FUNCTIONALITY ENABLED	RELATED FIELDS THAT MAY BE COMPLETED	
3. Service/Specialty update of Consults activity with automatic notification to the requesting service and to the original requester of the order upon resolution.	.06 123.03 123.04 123.08 123.1 123.3 123.31 123.35	<ul style="list-style-type: none"> • UNRESTRICTED ACCESS • NOTIFY SERVICE ON DC • SERVICE INDIVIDUAL TO NOTIFY • SERVICE TEAM TO NOTIFY (multiple) • UPDATE USERS W/O NOTIFICATIONS (multiple) • UPDATE TEAMS W/O NOTIFICATIONS (multiple) • UPDATE USER CLASSES W/O NOTIFS (multiple)
4. Automatic notification to service individuals or teams when CPRS releases the order. Assuming these users have the "NEW SERVICE CONSULT" notification turned on.	123.08 123.1 123.2	<ul style="list-style-type: none"> • SERVICE INDIVIDUAL TO NOTIFY • SERVICE TEAM(S) TO NOTIFY (multiple) • NOTIFICATION BY PATIENT LOCATION (multiple)
5. Ability to administratively complete consults, either singly or by date range.	123.33 123.34 123.5	<ul style="list-style-type: none"> • ADMINISTRATIVE UPDATE USER (multiple) • ADMINISTRATIVE UPDATE TEAM (multiple) • SPECIAL UPDATES INDIVIDUAL

Set Up Consult Services (SS)

The Set Up Consult Services command creates and maintains new records in the REQUEST SERVICES (#123.5) file. The following fields are involved:

SERVICE NAME: This is the Name of a service or specialty which may receive consult/requests. This may also be a name which represents a group of services or specialties.

ABBREVIATED PRINT NAME: This is a commonly known Abbreviation for this Service/Specialty. This name is used to build Consult Notifications and must be 7 characters or less in length.

SYNONYM: Identifies the commonly known names and abbreviations for the Service named in the .01 Name field. Synonyms identified here are used in the look-up of services at "Select Service/Specialty:" prompts as well as during ordering in CPRS.

SERVICE USAGE: Whenever a value is defined in the SERVICE USAGE field, the Service entry will NOT be selectable to send consults TO in the OE/RR ordering process. Service Usages cause functioning as follows:

GROUPER ONLY - Allows a service to be used for grouping other services together for review purposes, and aids in defining the service hierarchy (e.g., ALL SERVICES, INPATIENT SERVICES, OUTSIDE SERVICES). During the order process, a user selecting a grouper only service will be shown the service hierarchy under that service grouper. A Grouper ONLY service should never be a "TO" Service on a consult.

TRACKING ONLY - Allows a service to be defined in a hierarchy, but will not allow users ordering consults in OE/RR to be able to see or select a service marked for TRACKING ONLY. (e.g., Psychology may be defined with its Service Usage blank, and its Sub-specialty multiple defined with services of which some or all may be "TRACKING ONLY" services. This hierarchy facilitates the situation when a service, such as Psychology, prefers a common location for all related consults to be sent to. A Tracking user at the common location then "Forwards" the request to one of the sub-service TRACKING ONLY services for completion.) Update users for the service can see and order directly to a tracking service.

DISABLED - Disabled services are not selectable for ordering or tracking. Existing requests for a disabled service may still be processed to completion..

SERVICE PRINTER: Allows the service/specialty to identify a device that will be used for printing Consult Forms (SF 513) 'automatically' at the service when the consult/request order is released by CPRS. If the device is not defined, the Consult Form will not print unless a default service copy device is defined for the Consults package for the ordering location. The default service copy device parameter can be found by using the Print Parameters for Wards/Clinics [OR PARAM PRINTS (LOC)] option.

NOTIFY SERVICE ON DC: Controls when members configured to receive notifications for this service in the Consult hierarchy will be alerted to a consult being discontinued. This field can be set to ALWAYS, NEVER, or REQUESTOR ACTION. REQUESTOR ACTION stipulates notification only if the user discontinuing the consult is not an update user for the consulting service.

REPRINT 513 ON DC: This field will determine if the SF 513 should reprint to the consulting service when a consult is discontinued. Again the three choices are ALWAYS, NEVER, or REQUESTOR ACTION. REQUESTOR ACTION stipulates reprinting only if the user discontinuing the consult is not an update user for the consulting service.

PROVISIONAL DX PROMPT: Used by CPRS to determine how to prompt for the provisional diagnosis when ordering consults for this service. If this field is set to **OPTIONAL**, the user will be prompted for the provisional diagnosis but may bypass answering the prompt. If the field is set to **SUPPRESS**, the user will not be presented with the provisional diagnosis prompt. If set to **REQUIRED**, the user must answer the prompt to continue placing the order.

Provisional DX Input: Determines the method that CPRS uses to prompt the user for input of the provisional diagnosis when ordering a consult. If set to **FREE TEXT**, the user may type any text from 2-80 characters in length. If set to **LEXICON**, the user will be required to select a coded diagnosis from the Clinical Lexicon.

PREREQUISITE: This word-processing field is utilized to communicate pre-requisite information to the ordering person prior to ordering a consult to this service. This field is presented to the ordering person upon selecting a Consult service and allows them to abort the ordering at that time if they choose. TIU objects may be embedded within this field which are resolved for the current patient during ordering. Any TIU objects must be contained within vertical bars (e.g. |BLOOD PRESSURE|).

DEFAULT REASON FOR REQUEST: The default text used as the reason for request when ordering a consult for this service. This field allows a boilerplate of text to be imported into the reason for request when placing consult orders for this service. If the user places an order using a quick order having boilerplate text, that text supersedes any default text stored in this field. This field may contain any text including TIU objects. TIU Objects must be enclosed in vertical bars (e.g. |PATIENT NAME|).

RESTRICT DEFAULT REASON EDIT: If a **DEFAULT REASON FOR REQUEST** exists for this service this field effects the ordering person's ability to edit the default reason while placing an order. This variable can be set to **UNRESTRICTED**, **NO EDITING**, or **ASK ON EDIT ONLY**. If the third value, **ASK ON EDIT ONLY**, is used, the user is only allowed to edit the default reason if the order is edited before releasing to the service.

SERVICE INDIVIDUAL TO NOTIFY: A user may be identified in this field as having primary responsibility for receiving consults and tracking them through to completion or discontinuance. This individual will receive a "NEW SERVICE CONSULT" notification type when a new order is released to the service through CPRS. The user must have the "NEW SERVICE CONSULT/REQUEST" notification type enabled.

SERVICE TEAM TO NOTIFY: The name of the Service Team that is to receive notifications of any actions taken on a consult. A team of users may be identified (from the OE/RR LIST file #100.21) who will receive a "NEW SERVICE CONSULT" notification when a new order is released to the service through OE/RR. The individuals on the teams must have the "NEW SERVICE CONSULT/REQUEST" notification type turned "ON". Team members will be able to perform update tracking capabilities.

NOTIFICATION BY PT LOCATION: A ward location or hospital location which the service wishes to assign a service individual or team to. When a consult or request is ordered, notifications to the receiving service checks to see if the patients location is defined here. If defined, notifications are sent to an individual and/or members of a team specifically associated with this location.

PROCESS PARENTS FOR NOTIFS: This field, if set to **YES**, causes the parent service of this service to be processed when determining notification recipients. The check is carried up the chain until **ALL SERVICES** is reached or until a service is marked **NO**.

UPDATE USERS W/O NOTIFICATIONS: A list of individuals who can do update tracking, but who will not get a notification.

UPDATE TEAMS W/O NOTIFICATIONS: A list of teams to be assigned update authority for this service. All clinicians in the teams have update authority no matter what patients are in the teams.

UPDATE USER CLASS W/O NOTIFS: A list of user classes to be assigned update authority for this service. All persons assigned to the user classes included have update authority with the current service.

ADMINISTRATIVE UPDATE USER: A list of the users for a service who can perform Administrative Completes (Completes without a note attached). Optionally, this individual can be set as a notification recipient.

ADMINISTRATIVE UPDATE TEAM: This is a list that contains the names of team lists from the OE/RR LIST (#100.21) file. All provider/users of the teams will have administrative update authority for requests directed to this service and the teams can optionally be designated as notification recipients.

PROCESS PARENTS FOR UPDATES: This field, if set to YES, will cause the parent services of this service to be screened to determine update authority for a given user. Hence, if an individual is set as an update user in a grouper service, this individual will have privileges for all sub-services that have this field set to YES.

SPECIAL UPDATES INDIVIDUAL: This individual will have privileges to perform group status updates for this service or any of the entries in the SUB-SERVICE/ SPECIALTY field. It is recommended that this individual be a responsible service update user or a Clinical Application Coordinator. If given the option Group update of consult/procedure requests [GMRCSTSU], the user will be able to choose all requests within a date range that are pending, active or both and update the request to discontinued or complete. This will also update the related order in CPRS to the same status.

RESULT MGMT USER CLASS: This field defines the Authorization/Subscription User Class that is permitted to disassociate a Medicine result from a Consult request. It is recommended that this function be restricted to a very select group of individuals.

UNRESTRICTED ACCESS: This field, if set to yes will allow all users to perform the full range of update activities on consult or procedure requests directed to this service. If this field is set to yes, all other fields related to assignment of update users are ignored. The SERVICE INDIVIDUAL TO NOTIFY and the SERVICE TEAM(S) TO NOTIFY fields are still used to determine notification recipients for each individual service.

SUB-SERVICE/SPECIALTY: This is the list of sub-service/specialties that are grouped under this Service. The sub-service/specialty entries must each be defined as entries in this file. There is no limit on how deep the hierarchy of services may be defined. The only requirement is that the "ALL SERVICES" entry be at the top of the hierarchy. It is also highly recommended that a service be defined as the sub-service of only **one** entry in the hierarchy.

Example:

In this example a new service, arthritis, is set up:

```
Select Consult Management Option: SS Set up Consult Services
Select Service/Specialty: ARTHRITIS
  Are you adding 'ARTHRITIS' as a new REQUEST SERVICES (the 38TH)? No// Y
  (Yes)
SERVICE NAME: ARTHRITIS// <Enter>
ABBREVIATED PRINT NAME (Optional): ARTH
Select SYNONYM: AR
  Are you adding 'AR' as a new SYNONYM (the 1ST for this REQUEST SERVICES)? No//
Y
  (Yes)
Select SYNONYM: <Enter>
SERVICE USAGE: ?
  Enter '1' if the service is Grouper Only, 2 if the service is to be used
  for TRACKING Only, and 9 to DISABLE the service.
  Choose from:
    1          GROUPER ONLY
    2          TRACKING ONLY
    9          DISABLED
SERVICE USAGE: 2 TRACKING ONLY
SERVICE PRINTER: LASER
  1  LASER          PRINTER ROOM LN11 12 PITCH      _LTA36:          P-LN03.1
2
  2  LASERJET 4SI      OVER THERE      _LTA318:          P-HPLASER-P12
  3  LASERJET COMPRESSED      NORTHWEST QUAD      _LTA318:          P-HPL
J3-COMPR. PORT MODE
CHOOSE 1-3: 1  LASER          PRINTER ROOM LN11 12 PITCH      _LTA36:          P-LN
03.12
NOTIFY SERVICE ON DC: <Enter>
REPRINT 513 ON DC: <Enter>
PROVISIONAL DX PROMPT: <Enter>
PROVISIONAL DX INPUT: <Enter>
PREREQUISITE:
  1> <Enter>
DEFAULT REASON FOR REQUEST:
  1> <Enter>
RESTRICT DEFAULT REASON EDIT: <Enter>
SERVICE INDIVIDUAL TO NOTIFY: SNOW,CHARLES R.          CRS          PHYSICIAN
Select SERVICE TEAM TO NOTIFY: <Enter>
Select NOTIFICATION BY PT LOCATION: <Enter>
PROCESS PARENTS FOR NOTIFS: <Enter>
Select UPDATE USERS W/O NOTIFICATIONS: DENT,STUART          SD          MEDICAL S
TUDENT III
  Are you adding 'DENT,STUART' as
  a new UPDATE USERS W/O NOTIFICATIONS (the 1ST for this REQUEST SERVICES)? No
// Y
  (Yes)
Select UPDATE USERS W/O NOTIFICATIONS: GEROFMIS,MANNI          MG          CHIEF,
MIS
  Are you adding 'GEROFMIS,MANNI' as
  a new UPDATE USERS W/O NOTIFICATIONS (the 2ND for this REQUEST SERVICES)? No
// Y
  (Yes)
Select UPDATE USERS W/O NOTIFICATIONS: <Enter>
Select UPDATE TEAMS W/O NOTIFICATIONS: RED
  Are you adding 'RED' as
```

```

    a new UPDATE TEAMS W/O NOTIFICATIONS (the 1ST for this REQUEST SERVICES)? No
// Y
(Yes)
Select UPDATE TEAMS W/O NOTIFICATIONS: <Enter>
Select UPDATE USER CLASS W/O NOTIFS: ORTHOTIST/PROSTHETIST
Are you adding 'ORTHOTIST/PROSTHETIST' as
    a new UPDATE USER CLASSES W/O NOTIFS (the 1ST for this REQUEST SERVICES)? No
// Y
(Yes)
Select UPDATE USER CLASS W/O NOTIFS: RHEUMATOLOGIST
Are you adding 'RHEUMATOLOGIST' as
    a new UPDATE USER CLASSES W/O NOTIFS (the 2ND for this REQUEST SERVICES)? No
// Y
(Yes)
Select UPDATE USER CLASS W/O NOTIFS: <Enter>
Select ADMINISTRATIVE UPDATE USERS: CLERK, F CLERK,F.W.D. FWDC
MEDICAL RECORD TECHNICIAN
Are you adding 'CLERK,F.W.D.' as
    a new ADMINISTRATIVE UPDATE USERS(the 1ST for this REQUEST SERVICES)? No
// Y
(Yes)

Select NOTIFICATION RECIPIENT: <Enter>
Select ADMINISTRATIVE UPDATE USERS: <Enter>
Select ADMINISTRATIVE UPDATE TEAMS: <Enter>
PROCESS PARENTS FOR UPDATES: Y YES
SPECIAL UPDATES INDIVIDUAL: WELBY,MARCUS MW CHIEF, MEDICAL SERV
ICE
RESULT MGMT USER CLASS: CHIEF, MIS
UNRESTRICTED ACCESS: N NO
Select SUB-SERVICE/SPECIALTY: <Enter>

Add/Edit Another Service? N// <Enter>

Select Consult Management Option:

```



Note: When you create a new service, it is *not* automatically linked into the Consults hierarchy. You must explicitly group each service under ALL SERVICES or under another service that in turn is grouped under ALL SERVICES. Until this is done, the new service is not visible in the service hierarchy and cannot be selected for any action.

Use the Set Up Consult Services (SS) action to group services. In the following example, we group the ARTHRITIS service under ALL SERVICES:

```
Select Consult Management Option: SS Set up Consult Services
SERVICE NAME: ALL SERVICES
ABBREVIATED PRINT NAME (Optional): <Enter>
Select SYNONYM: <Enter>
SERVICE USAGE: GROUPER ONLY//<Enter>
SERVICE PRINTER: <Enter>
NOTIFY SERVICE ON DC: <Enter>
REPRINT 513 ON DC: <Enter>
PROVISIONAL DX PROMPT: <Enter>
PROVISIONAL DX INPUT: <Enter>
PREREQUISITE:
  1> <Enter>
DEFAULT REASON FOR REQUEST:
  1> <Enter>
RESTRICT DEFAULT REASON EDIT: <Enter>

SERVICE INDIVIDUAL TO NOTIFY: <Enter>
Select SERVICE TEAM TO NOTIFY: <Enter>
Select NOTIFICATION BY PT LOCATION: <Enter>
PROCESS PARENTS FOR NOTIFS: <Enter>

Select UPDATE USERS W/O NOTIFICATIONS: <Enter>
Select UPDATE USER CLASS W/O NOTIFS: <Enter>
Select ADMINISTRATIVE UPDATE USER: <Enter>
Select ADMINISTRATIVE UPDATE USER: <Enter>
Select ADMINISTRATIVE UPDATE TEAM: <Enter>
PROCESS PARENTS FOR UPDATES: <Enter>

SPECIAL UPDATES INDIVIDUAL: <Enter>
UNRESTRICTED ACCESS: <Enter>
Select SUB-SERVICE/SPECIALTY: Oncology// ARTHRITIS
  Are you adding 'ARTHRITIS' as a new SUB-SERVICE (the 15TH for this REQUEST SERVICES)? No// Y
    (Yes)
    MNEMONIC: <Enter>
Select SUB-SERVICE/SPECIALTY: <Enter>

Add/Edit Another Service?
```


Quick Orders

Enter/edit quick orders [ORCM QUICK ORDERS] is available within the Order Menu Management (ORCM MGMT) option of the CPRS Configuration (Clin Coord) menu. There are two steps to setting up a quick order:

1. Define the quick order with the Enter/edit quick orders option of the Order Menu Management menu.
2. Put the quick order on an order entry menu with the Enter/edit order menus option of the Order Menu Management menu.

In the following example we set up a quick order called NUTRITION:

```
Select Order Menu Management Option: ?

OI      Enter/edit orderable items
PM      Enter/edit prompts
GO      Enter/edit generic orders
QO      Enter/edit quick orders
ST      Enter/edit order sets
AC      Enter/edit actions
MN      Enter/edit order menus
AO      Assign Primary Order Menu
CP      Convert protocols
SR      Search/replace components

Enter ?? for more options, ??? for brief descriptions, ?OPTION for help text.

Select Order Menu Management Option: QO  Enter/edit quick orders
Select QUICK ORDER NAME: NUTRITION
NAME: NUTRITION// <Enter>
DISPLAY TEXT: NUTRITION CONSULT
VERIFY ORDER:
DESCRIPTION:
  1>Nutrition Consult
  2><Enter>
EDIT Option: <Enter>

Consult to Service/Specialty: DIETARY
Reason for Request: . . .
  1> [ ]food preferences by pt request  [ ]nutrition assessment
  2> [ ]chewing/swallowing problems    [ ]nutrient intake study (calories)
  3> [ ]recommended oral supplements   [ ]recommended diet order
  4> [ ]malnutrition - diagnosis        [ ]NPO/clear liquids > 5 days
  5> [ ]initiate tube feeding           [ ]monitor tube feeding
  6> [ ]renal nutrition consult         [ ]diet instruction
  7> [ ]see MD re:patient               [ ]schedule to nutrition class
  8> [ ]10-1 referral                  [ ]outpatient nutrition education
  9>
10>Present Diagnosis:
11>Nutritionally relevant PMH/PSH:
12>Current diet rx:
13>Current albumin:                    Date:
14>Current weight (kg):                 Date:
15>H/O wt changes or problems with intake:
16>
17>          ****   Fill in this form before transmitting   ****
18><Enter>
EDIT Option: <Enter>
Category: <Enter>
```

Urgency: <Enter>
Place of Consultation: <Enter>
Attention: <Enter>
Provisional Diagnosis: <Enter>

Consult to Service/Specialty: DIETARY
Reason for Request: []food preferences by pt request []n ...

(P)lace, (E)dit, or (C)ancel this quick order? PLACE// <Enter>

Select QUICK ORDER NAME: <Enter>

Select Order Menu Management Option: **MN** Enter/edit order menus
Select ORDER MENU: **OR GMENU OTHER ORDERS**

Menu Editor		Mar 31, 1998 13:18:25		Page: 1 of 3
Menu: OR GMENU OTHER ORDERS				Column Width: 26
1	2	3	4	
0	CONSULT...	30	PROCEDURE...	
	Family/Marriage Counsel			
+				
1				
+				
+ + Next Screen - Prev Screen ?? More Actions >>>				
Menu Items		Text or Header		Row
Add: me Menu Items				
ITEM: NU				

1 NUTRITION
2 NURSING OR GXNURS NURSING ITEM
CHOOSE 1-2: **1** NUTRITION
ROW: **3**
COLUMN: **1**
DISPLAY TEXT: **Nutrition**
MNEMONIC: **NU**

ITEM: <Enter>

Rebuilding menu display ...

Menu Editor		Mar 31, 1998 13:20:13		Page: 1 of 3
Menu: OR GMENU OTHER ORDERS				Column Width: 26
1	2	3	4	
0	CONSULT...	30	PROCEDURE...	
	Family/Marriage Counsel			
	NU Nutrition			

+
1
+

+ Next Screen - Prev Screen ?? More Actions >>>

Add ... Edit ... Assign to User(s) Select New Menu
Remove ... Toggle Display Order Dialogs ... Quit
Select Action: Next Screen//

Consult Tracking Reports

The Consult Tracking Reports [GMRC REPORTS] option provides seven on-screen reports. They are:

- 1) Completion Time Statistics (ST) for QA and others interested in volume and service turn-around times.
- 2) Service Consults Pending Resolution (PC) helps users track individual consults.
- 3) Service Consults Completed (CC) for management and others interested in volume.
- 4) Service Consults Completed or Pending Resolution (CP) for clerical staff and others interested in pending consults.
- 5) Service Consults by Status either with or without Consults Numbers (NU and SC).

Additionally, the Completion Time Statistics and Service Consults by Status (with consult numbers) can be printed out in hard-copy.

The Service Consults Pending Resolution [GMRC RPT PENDING CONSULTS] option may be added to a service user's primary or secondary option menu. See the *Consult/Request Tracking User Manual* for details related to this option. This option is also contained on the Consult Service Tracking and Pharmacy TPN Consults menus.

Service Consults Pending Resolution

The purpose of the Service Consults Pending Resolution option is to list the pending and active consults. Use it to stay informed about the overall status of consults for your service. Someone in each clinic or service should review this list daily to make sure that all consults are being attended to.

In the following example, the option is used to view pending and active Pulmonary consults:

```
Select Consult Service Tracking Option: ?

    CS      Consult Service Tracking
    PC      Service Consults Pending Resolution
    ST      Completion Time Statistics

Enter ?? for more options, ??? for brief descriptions, ?OPTION for help text.

Select Consult Service Tracking Option: PC  Service Consults Pending Resolution
Select Service/Specialty: PULMONARY
```

GMRC PENDING CONSULTS			Oct 08, 1997 08:16:39		Page:	1 of 2
SERVICE CONSULTS PENDING RESOLUTION						
To Service: PULMONARY						
Status	Last Action		Request Date	Patient Name	Pt Location	
Pending	ENTERED IN OE/RR		10/07/97	DINARO,M. (3779)	PULMONARY CLINIC	
Pending	ENTERED IN OE/RR		10/07/97	SMITH,S. (1462)	PULMONARY CLINIC	
Pending	ENTERED IN OE/RR		10/07/97	RAMBO,J. (1239)	PULMONARY CLINIC	
Pending	ENTERED IN OE/RR		05/06/97	HOLMES,S. (5377)		
Pending	COMPLETED		05/06/97	HOLMES,S. (5377)		
Active	ENTERED IN OE/RR		09/04/97	RUSSELL,D. (4455)	2B	
Active	ENTERED IN OE/RR		08/21/97	HOOD,R. (2591)	1A	
Active	ENTERED IN OE/RR		08/21/97	DOE,W. (6572)	1A	
Active	ENTERED IN OE/RR		08/21/97	ANDERSON,H. (3456)	2B	
Active	ENTERED IN OE/RR		07/21/97	BUD,R. (1996)	2B	
Active	ENTERED IN OE/RR		07/16/97	STONE,J. (2432)	1A	
Active	ENTERED IN OE/RR		05/21/97	ANDERSON,H. (3456)	2B	
Active	ENTERED IN OE/RR		05/21/97	DOE,W. (6572)	PULMONARY CLINIC	
Active	ENTERED IN OE/RR		02/03/97	NIVEK,A. (8796)		
Active	ENTERED IN OE/RR		02/03/97	NIVEK,A. (8796)		
Active	ENTERED IN OE/RR		01/15/97	HARDY,T. (9600)	1A	
+ Enter ?? for more actions						
Select Item(s): Next Screen//						

Service User Management (SU)

This option is used to make the most commonly needed changes after a service has been created. This option changes fields that are all in records in the REQUEST SERVICES (#123.5) file They are:

SERVICE INDIVIDUAL TO NOTIFY: An individual who will receive a default notification of any action taken on a consult.

SERVICE TEAM TO NOTIFY: The name of the Service Team that is to receive notifications of any actions taken on a consult.

NOTIFICATION BY PT LOCATION: The name of a hospital location that is to receive notifications of any actions taken on a consult.

UPDATE USERS W/O NOTIFICATIONS: The name of an individual who can do update tracking, but who will not get a notification.

UPDATE TEAMS W/O NOTIFICATIONS: A team list of users to be assigned update authority for this service.

UPDATE USER CLASS W/O NOTIFS: A user class to be assigned update authority for this service.

ADMINISTRATIVE UPDATE USER: An individual who can perform Administrative Completes (Completes without a note attached).

ADMINISTRATIVE UPDATE TEAM: A team who can perform Administrative Completes (Completes without a note attached).

SPECIAL UPDATES INDIVIDUAL: This is the individual who can perform special updates for this particular service.

In order for the Service users to actually receive a new consult notification, the users must have the notification "NEW SERVICE CONSULT/REQUEST" turned **ON** for their use. See the *CPRS Clinical Coordinator & User Manual*, NOTIFICATION MGMT MENU option for more information on notifications and how to set them up.

Teams of users may be defined by an individual or team members with access to the "Team Management Menu" provided by CPRS. See the *CPRS Clinical Coordinator & User Manual* for more information on Team Management and its recommended menu access. It is important to know that team users are sent the notification **regardless** of any patients who may be defined in that team list.

An example of setting up notifications is shown on the next page.

In the following example no changes are made. The prompts in the Service User Management option are cycled through so you can see what they are:

```
Select OPTION NAME:      GMRC MGR          Consult Management      menu
Select Consult Management Option: SU  Service User Management

Select Service/Specialty: ARTHRITIS
SERVICE INDIVIDUAL TO NOTIFY: AUTRY,GENE//
Select SERVICE TEAM TO NOTIFY:
Select NOTIFICATION BY PT LOCATION:
```

```
Select UPDATE USERS W/O NOTIFICATIONS: SNOW,CHARLES R
//
Select UPDATE TEAMS W/O NOTIFICATIONS:
Select UPDATE USER CLASS W/O NOTIFS:
Select ADMINISTRATIVE UPDATE USER:
Select ADMINISTRATIVE UPDATE TEAM:
SPECIAL UPDATES INDIVIDUAL:

Select Service/Specialty:
```

The individual and team names that are displayed are the current default values. In most cases they are the most recently used value for that prompt.

To set up an individual to have update activities but receive no notification, do the following. This example sets up Marcus Welby to have update privileges:

```
Select OPTION NAME:      GMRC MGR          Consult Management      menu

Select Consult Management Option: SU  Service User Management

Select Service/Specialty: MEDICINE
SERVICE INDIVIDUAL TO NOTIFY: AUTRY,GENE//
Select SERVICE TEAM TO NOTIFY:
Select NOTIFICATION BY PT LOCATION:

Select UPDATE USERS W/O NOTIFICATIONS: SNOW,CHARLES R
// ?
Answer with UPDATE USERS W/O NOTIFICATIONS
Choose from:
RASKELL,JOEL
HALE,VICKI
JENSEN,CHARLES
SNOW,CHARLES R.

    You may enter a new UPDATE USERS W/O NOTIFICATIONS, if you wish
    Enter the name of individual who can do update tracking, but who will
    not get a notification.
Answer with NEW PERSON NAME, or INITIAL, or SSN, or VERIFY CODE, or
NICK NAME, or KEY DELEGATION LEVEL, or DEA#, or VA#, or
SOCIAL WORKER ?, or POSITION/TITLE, or TRANSCRIPTIONIST ID, or
ALIAS
Do you want the entire 101-Entry NEW PERSON List? N  (No)
Select UPDATE USERS W/O NOTIFICATIONS: SNOW,CHARLES R.
// WELBY,MARCUS          MW          CHIEF, MEDICAL SERVICE
Are you adding 'WELBY,MARCUS' as
a new UPDATE USERS W/O NOTIFICATIONS (the 5TH for this REQUEST SERVICES)? No
// Y
(Yes) ??
Select UPDATE USERS W/O NOTIFICATIONS: WELBY,MARCUS
// <Enter>
Select UPDATE TEAMS W/O NOTIFICATIONS:
Select UPDATE USER CLASS W/O NOTIFS:
Select ADMINISTRATIVE UPDATE USER:
Select ADMINISTRATIVE UPDATE TEAM:
SPECIAL UPDATES INDIVIDUAL:
Select Service/Specialty: <Enter>

Select Consult Management Option:
```


Sometimes it is necessary to administratively Complete (CT) consults that for one reason or another have not been resolved. To set up an individual who can complete other people's consults do the following. This example sets up Ben Casey as an administrative user who can complete any Medicine Consult without a signature.

```
Select Consult Management Option: SU Service User Management

Select Service/Specialty: MEDICINE
SERVICE INDIVIDUAL TO NOTIFY: AUTRY,MIKE// <Enter>
Select SERVICE TEAM TO NOTIFY: GOLD TEAM// <Enter>
Select NOTIFICATION BY PT LOCATION: 1A// <Enter>
    NOTIFICATION BY PT LOCATION: 1A// <Enter>
    INDIVIDUAL TO NOTIFY: <Enter>
    TEAM TO NOTIFY: <Enter>
Select NOTIFICATION BY PT LOCATION: <Enter>

Select UPDATE USERS W/O NOTIFICATIONS: MASON,MARCIA D
    // <Enter>
Select UPDATE TEAMS W/O NOTIFICATIONS: <Enter>
Select UPDATE USER CLASS W/O NOTIFS: <Enter>
Select ADMINISTRATIVE UPDATE USER: CASEY CASEY,BEN BC ASST CHI
EF, MEDICAL SERVICE
    Are you adding 'CASEY,BEN' as
        A new ADMINISTRATIVE UPDATE USERS (the 1ST for this REQUEST SERVICES)? No//
Y
    (Yes)
        NOTIFICATION RECIPIENT: <Enter>
Select ADMINISTRATIVE UPDATE USER: <Enter>(gu)
Select ADMINISTRATIVE UPDATE TEAM: <Enter>
SPECIAL UPDATES INDIVIDUAL: <Enter>

Select Service/Specialty: Select Service/Specialty: <Enter>

Select Consult Management Option:
```

To set up an individual who has update privileges and receives “NEW SERVICE CONSULT/REQUEST” notifications do the following. This example sets up Dr. Maven to receive alerts when a consult comes to the Medicine clinic:

```
Select OPTION NAME: GMRC MGR          Consult Management      menu

Select Consult Management Option: SU  Service User Management

Select Service/Specialty: MEDICINE

SERVICE INDIVIDUAL TO NOTIFY: MORROW,BECKY// MAVEN,MARCIE J      MC
    PHYSICIAN
Select SERVICE TEAM TO NOTIFY: <Enter>
Select NOTIFICATION BY PT LOCATION: <Enter>

Select UPDATE USERS W/O NOTIFICATIONS: SNOW,CHARLES R
    // <Enter>
Select UPDATE TEAMS W/O NOTIFICATIONS: <Enter>
Select UPDATE USER CLASS W/O NOTIFS: <Enter>
Select ADMINISTRATIVE UPDATE USER: JENSEN,CHARLES
    // <Enter>
    ADMINISTRATIVE UPDATE USER: JENSEN,CHARLES// <Enter>
    NOTIFICATION RECIPIENT: <Enter>
Select ADMINISTRATIVE UPDATE USER: <Enter>
Select ADMINISTRATIVE UPDATE TEAM: <Enter>
SPECIAL UPDATES INDIVIDUAL: JENSEN,CHARLES// <Enter>

Select Service/Specialty:
```

To set up a predefined team of clinicians for a service that has update privileges and receives NEW SERVICE CONSULT/REQUEST notifications do the following. In this example, to set up the Gold team to receive notifications do the following: (Team set up is discussed in the *CPRS Clinical Coordinator & User Manual*.)

```
Select OPTION NAME:  GMRC MGR           Consult Management      menu

Select Consult Management Option:  SU   Service User Management

SERVICE INDIVIDUAL TO NOTIFY: MORROW,BECKY// <Enter>
Select SERVICE TEAM TO NOTIFY:  GOLD
Select NOTIFICATION BY PT LOCATION: <Enter>

Select UPDATE USERS W/O NOTIFICATIONS: SNOW,CHARLES R
// <Enter>
Select UPDATE TEAMS W/O NOTIFICATIONS: <Enter>
Select UPDATE USER CLASS W/O NOTIFS: <Enter>
Select ADMINISTRATIVE UPDATE USER: JENSEN,CHARLES
// <Enter>
    ADMINISTRATIVE UPDATE USER: JENSEN,CHARLES// <Enter>
    NOTIFICATION RECIPIENT: <Enter>
Select ADMINISTRATIVE UPDATE USER: <Enter>
Select ADMINISTRATIVE UPDATE TEAM: <Enter>
SPECIAL UPDATES INDIVIDUAL: JENSEN,CHARLES// <Enter>

Select Service/Specialty:
```

To set up individuals and a predefined team associated with a hospital ward location that have update activities and receives “NEW SERVICE CONSULT/REQUEST” notifications: (In this example we set up ward 2B Medical to receive notifications, along with Dr. Snow and the Green team. Team set up is discussed in the *CPRS Clinical Coordinator & User Manual*.) The users entered in the NOTIFICATION BY LOCATION sub-fields will **ONLY** be notified if the requesting location for the consult matches the location for which they are entered here. So in the case of the following example SNOW, CHARLES would only be notified for consults coming from 2B MED

```
Select Consult Management Option: SU  Service User Management

Select Service/Specialty: MEDICINE
SERVICE INDIVIDUAL TO NOTIFY: MORROW,BECKY// <Enter>
Select SERVICE TEAM TO NOTIFY: <Enter>
Select NOTIFICATION BY PT LOCATION: 1A// 2B

    Searching for a Enter Ward Location
    1    2B    2B
    2    2B MED    2B MED
CHOOSE 1-2: 2  2B MED
  INDIVIDUAL TO NOTIFY: SNOW,CHARLES R.          CRS          PHYSICIAN
    TEAM TO NOTIFY: GREEN
Select NOTIFICATION BY PT LOCATION: <Enter>
Select UPDATE USERS W/O NOTIFICATIONS: SNOW,CHARLES R
    // <Enter>
Select UPDATE TEAMS W/O NOTIFICATIONS: <Enter>
Select UPDATE USER CLASS W/O NOTIFS: <Enter>
Select ADMINISTRATIVE UPDATE USER: JENSEN,CHARLES
    // <Enter>
  ADMINISTRATIVE UPDATE USER: JENSEN,CHARLES// <Enter>
  NOTIFICATION RECIPIENT: <Enter>
Select ADMINISTRATIVE UPDATE USER: <Enter>
Select ADMINISTRATIVE UPDATE TEAM: <Enter>
SPECIAL UPDATES INDIVIDUAL: JENSEN,CHARLES// <Enter>

Select Service/Specialty:
```

Group Update (GU)

A Group Update can only be performed by an individual who has been set as the Special Updates Individual with the Set Up Consult Service (SS) or Service User Management (SU) option of the Consult Management (GMRC MGR) menu. This option should be exercised with great care because it can affect a large number of consults.

In this example, all consults before the first of the year that are not complete are discontinued for a specific service:

```
Select Consult Management Option: gu  Group update of consult/procedure requests

Select Service/Specialty: ALL SERVICES// CARD
      1  CARDIOLOGY
      2  CARDIOLOGY (SOUTH)          TRACKING ONLY
CHOOSE 1-2: 1  CARDIOLOGY

The first order in Consults has an entry date of MAR 28,1992

Update Status Start Date:  MAR 28,1992// <Enter>  (MAR 28, 1992)
Update Status Stop Date:  DEC 31, 2000  (DEC 31, 2000)

      1 = Pending
      2 = Active
      3 = Scheduled
      4 = All

Enter any combination of numbers separated
by a comma or hyphen:  (1-4): 4

If orders in the date range still have the selected status, this option
will change their status in consults, and update the order.

You may change the status to COMPLETE or DISCONTINUED.

Change their status to: DIS  Discontinued

Enter the Comment to be applied to all selected Consults
  1>Discontinue old consults ref.
  2>
EDIT Option:

Records will be updated for:
-----
      Service: CARDIOLOGY
      Beginning: Mar 28, 1992
      Ending: Dec 31, 2000
      Update: Active, Pending, and Scheduled  Consults
      To: DISCONTINUED
      Update Comment:
Discontinue old consults ref.
-----

Is this correct? NO// Y  YES

Searching database for entries matching search criteria
.....

      Select one of the following:

      1          Print report only
```

2 Print report & update records
3 Quit

Choose the method to handle the report: **2** Print report & update records

The device selected will print a list of entries from file 123 that will be updated to DISCONTINUED.

If you choose to update records, the update of the consult entries will take place upon completion of the report.

It is highly advised that a printer be selected!

Select device for report: **WORK** PRINTER ROOM

Do you want your output QUEUED? NO// **<Enter>** (NO)

Select one of the following:

Y To Update
N To Quit without Updating

Enter update status : **Y** To Update

Select Consult Management Option:

Print Test Page (TP)

Sometimes the pagination on SF 513 is correct on some printers but incorrect on others. The Print Test Page command is provided for diagnosing incorrectly paginated SF 513s. Instructions for correcting this situation are printed with the test page. Bring the test page to IRM for resolution of the problem.

In this example, we run the Print Test Page option on a specified printer:

```
Select Consult Management Option: TP  Print Test Page

Print consults printer setup page.

DEVICE: HOME// LAZER  PRINTER ROOM LN11 12 PITCH    Right Margin: 80//

Do you want your output QUEUED? NO// <Enter>  (NO)

Select Consult Management Option:
```

Determine Users' Update Authority (UA)

Sometimes it is necessary to quickly check on the authority of a service user. The Determine Users' Update Authority option of the Consults Management menu does this.

In this example, the authority for Dr. Snow is checked for the Cardiology service:

```
Select Consult Management Option: UA Determine users' update authority

This option will allow you to check a user's update authority for any given
service in the consults hierarchy. If the PROCESS PARENTS FOR UPDATES field
is set to YES, all ancestors of the selected service will be checked.
The type of update authority and the service to which they are assigned will
be displayed.

Select Consult Service: CARDIOLOGY
Choose user to check for update status: SNOW SNOW,CHARLES R. CA
MD Surgeon

This user is an update user for: CARDIOLOGY
via the UPDATE USERS W/O NOTIFICATIONS field.

Select Consult Service:
```


Determine if User is Notification Recipient (UN)

Sometimes it is necessary to quickly check a user's notification status for a service. The Determine if User is Notification Recipient option of the Consults Management menu accomplishes this.

In the following example Dr. Snow notification status is checked for the Podiatry Clinic:

Select Consult Management Option: **UN** Determine if user is notification recipient

This option will list how a given user became a notification recipient for a selected consult service. If the PROCESS PARENTS FOR NOTIFS field is set to YES, all the parents of the service will also be processed to determine if the user is a recipient via that service.

Select Consult Service: **POD** FOOT CLINIC

Choose notification recipient: **SNOW** SNOW,CHARLES R CRS PHYSICI
AN

This user is a notification recipients for FOOT CLINIC

Select Consult Service:

Determine Notification Recipients for a Service (NR)

Occasionally it is necessary to see the entire list of notification recipients for a service. The Determine Notification Recipients for a Service option of the Consults Management menu performs the function.

In the following example, notification recipients are listed for the Medicine service:

```
Select Consult Management Option: NR Determine notification recipients for a service
Select Service: MEDICINE
```

Consult Notif Recipients	May 10, 2000 19:46:44	Page: 1 of 1
Notification Recipients for: MEDICINE		
Notification Recipient	Service	
ANDERSON, DOCTOR	MEDICINE	
AUTRY, GENE	MEDICINE	
SNOW, CHARLES R	MEDICINE	
CASEY, BEN	MEDICINE	
EATON, SCHOLAR	MEDICINE	
FROM, HERE	MEDICINE	
ARNSLEY, MARIE L	MEDICINE	
MACLENAHAN, MARGIE	MEDICINE	
MACDANIEL, RIGHT	MEDICINE	
RUTHE, BABE (HENRY)	MEDICINE	
TRUSS, DOOBIE	MEDICINE	
Enter ?? for more actions		
SS Select new Service		
Select Item(s): Quit//		

Test Default Reason for Request (TD)

The Test Default Reason for Request option of the Consults Management menu is provided so that the boilerplate entered in the default reason for request can be tested. It is important to test this boilerplate, especially if it contains TIU objects (TIU objects are contained in vertical bars as such: |PATIENT NAME|.)

TIU can vary from site to site. There are only a certain number of objects that are common to all sites—these are the Supported Objects. The following table contains a list of these objects:

Object Name	Object Name
ACTIVE MEDICATIONS	PATIENT HEIGHT
ACTIVE MEDICATIONS	PATIENT NAME
ACTIVE MEDS COMBINED	PATIENT RACE
ALLERGIES/ADR	PATIENT RELIGION
BLOOD PRESSURE	PATIENT SEX
CURRENT ADMISSION	PATIENT SSN
DETAILED ACTIVE MEDS	PATIENT WEIGHT
DETAILED RECENT MEDS	PULSE
NOW	RECENT MEDICATIONS
PAIN	RECENT MEDS COMBINED
PATIENT AGE	RESPIRATION
PATIENT DATE OF BIRTH	TEMPERATURE
PATIENT DATE OF DEATH+ Status	TODAY'S DATE

Further information about objects can be obtained at the following VA intranet address:

vista.med.va.gov/softserv/clin_bro.ad/tiu/html/objects.html

In the following example, we first use the SS option to enter a default reason for request as such:

```
. . .
DEFAULT REASON FOR REQUEST:
1>|PATIENT NAME| is a |PATIENT AGE| y/o |PATIENT RACE| |PATIENT SEX|
2>currently taking |ACTIVE MEDICATIONS|
3>
4>
5>Allergies:
6>|ALLERGIES/ADR|
7>
8>Latest BP: |BLOOD PRESSURE|
9>
10>Patient to be seen for full cardiac evaluation.
EDIT Option: <Enter>
. . .
```

Now, to check this we use the TD option to check this for a specific patient:

Select Consult Management Option: **TD** Test Default Reason for Request
Test default for service or procedure? ?

Enter a code from the list.

Select one of the following:

S service
P procedure

Test default for service or procedure? **Service**

Select Service: **CARDIOLOGY**

Select PATIENT: **BABBITT,THEODORE** BABBITT,THEODORE 5-19-46 448668832

YES SC VETERAN

Enrollment Priority: Category: IN PROCESS End Date:

Gathering Allergy Data..

Default Reason for Request May 10, 2000 20:15:56 Page: 1 of 1

Service: CARDIOLOGY

Patient: BABBITT,THEODORE

BABBITT,THEODORE is a 53 y/o BLACK, NOT OF HISPANIC ORIGIN MALE
currently taking Active Inpatient Medications (excluding Supplies):

Pending Inpatient Medications	Status
=====	=====
1) WARFARIN TAB 10MG PO PRN	PENDING

Allergies:

BEEF

Latest BP: Blood Pressure: 130/80/100 (06/02/1999 13:17)

Patient to be seen for full cardiac evaluation.

Enter ?? for more actions

SS Select new service SP Select new patient

Select Item(s): Quit//

List Consult Service Hierarchy (LH)

This option of the Consults Management menu gives a *complete* list of the Consult Service Hierarchy as it currently exists. All services, including disabled ones, are listed with their current status. At the end of the hierarchy listing it will show any services that are not part of the hierarchy.

In this example we start to list the service hierarchy from our test account on the computer screen:

```
Select Consult Management Option: LH List Consult Service Hierarchy
DEVICE: HOME// <Enter> VAX
```

```
Consult Hierarchy list                                     Page: 1
-----
ALL SERVICES (Grouper Only)
  ARTHRITIS (Tracking Only)
    <CONTACT LENS REQUEST> <Disabled>
    <EYEGLASS REQUEST> <Disabled>
  FOOT CLINIC (Tracking Only)
  GASTROENTEROLOGY
  GERIATRICS
    <HEMATOLOGY> <Disabled>
    <HOME OXYGEN REQUEST> <Disabled>
  HYPERTENSION
  MARCIA'S SPECIALTY
  MEDICINE (Grouper Only)
    CARDIOLOGY
    GASTROENTEROLOGY
    PULMONARY
  MEDICINE VISN
    MEDICINE (EAST)
    MEDICINE,SOUTH
      CARDIOLOGY (SOUTH)

  Press RETURN to continue, ^ to exit:
```

Copy Prosthetics Services (CP)

The Copy Prosthetics Services option of the Consult Management menu is provided to assist you in configuring the prosthetics services at your medical center. . . .

The four (4) nationally exported services for Prosthetics are:

- 1) PROSTHETICS REQUEST
- 2) EYEGLASS REQUEST
- 3) CONTACT LENS REQUEST
- 4) HOME OXYGEN REQUEST

The basis of the interface between Consult/Request Tracking and Prosthetics is the name of the Consult service being requested. When a request for a consult is ordered, if the name of the service requested is one of the nationally exported services, the order will be filed in the Prosthetics package as well as Consult/Request Tracking. Since the name of the service is critical to the stability of the interface, the name of each of the above services will not be editable.

Each of the services have several other fields defined based on requirements of the interface. The fields that are restricted are:

- (#.01) NAME
- (#1.01) PROVISIONAL DX PROMPT
- (#1.02) PROVISIONAL DX INPUT
- (#124) DEFAULT REASON FOR REQUEST

When a request is copied, all these fields remain intact so that a request to that service is processed by the Prosthetics Package.

In the following example, the Copy Prosthetics action is used to create an Eyeglass Request service with the location name “Provo” appended to it. To be useful, the following additional actions should be taken:

1. Use the Setup Service (SS) action to place the service in the hierarchy.
2. Use the Setup Service (SS) action to activate the service.

```
Select Consult Management Option: CP Copy Prosthetics services

Select the Prosthetics Service to clone: Eyeglass Request      DISABLED

Enter text to append to national service name: Provo
The new service name will be:
    EYEGLASS REQUEST - Provo

Is this OK? Y YES

EYEGLASS REQUEST - Provo created

The new Service is currently DISABLED. To activate this service for use in
the Prosthetics interface, you MUST use the Setup Consult Services option
and delete the DISABLED flag from the SERVICE USAGE field.

Select Consult Management Option:
```

Duplicate Sub-Service (DS)

The Duplicate Sub-Service option of the Consult Management menu is provided to assist you in debugging your service hierarchy. It displays services that are listed as a sub-service of more than one service. Having a service as a sub-service of more than one service has several undesirable effects. These include:

1. Reports that span more than one level of the hierarchy inaccurately report statistics.
2. Notification recipients may be inaccurately determined.

In this example, we run the DS option on our local test account:

```
Select Consult Management Option: DS Duplicate Sub-Service
Service GASTROENTEROLOGY is a sub service of:
  ALL SERVICES
  MEDICINE

There is 1 service that is a sub-service for more than one service.

Select Consult Management Option:
```


Notification Parameters

There are four (4) Consults notifications:

#23	CONSULT/REQUEST RESOLUTION
#27	NEW SERVICE CONSULT/REQUEST
#30	CONSULT/REQUEST CANCEL/HOLD
#63	CONSULT/REQUEST UPDATED

Any user who wants to receive these notifications must have the notifications enabled for themselves. To turn on these notifications, use the Enable/Disable Notifications option of the NOTIFICATION MGMT MENU, ORB NOT MGR MENU.



NOTE: Unless Consult notifications are set to mandatory, individual users may use the Enable/Disable My Notifications option of the Notifications Management Menu to individually disable the notifications they do not want to receive.

Also, the deletion parameter for these notifications is set to Individual Recipient. This means that when an individual reviews one of these notifications, the notification is deleted for only that individual. This parameter may be set to All Recipients, in which case a notification is deleted for all recipients when any one of them reviews it.

To change the deletion parameter for any of the Consults notifications, use the Set Deletion Parameters for Notifications option of the Notification Mgmt Menu.

The newest notification, #63, CONSULT/REQUEST UPDATED, is triggered when a comment is added to consult. Comments may be added either with the Add Comment (CM) action or the Schedule (SC) action. The text of the alert is altered depending on which one of these actions initiated the alert as follows:

- **Adding a Comment #63** "Comment Added to Consult: . . ."
- **Scheduling #63** "Scheduled Consult: . . ."

Consult Service Tracking

Functionality

The Consult Service Tracking (GMRC SERVICE TRACKING) option is a generic “User” option that:

Provides a “by patient” lookup of consults and procedure requests which is similar to CPRS’s “by patient” lookup of orders.

Provides a “by Service” lookup of consults and procedure requests. Users may select a service/specialty at any level in the hierarchy of services defined by IRMS/ADPAC personnel.



Note: The Consults “Select Service (SS)” action lumps all consult and procedure request orders under a Display Group called “CONSULT...” The only way for users to breakdown these orders by request service is to use the “Select Service (SS)” action provided by this option.

Displays a review screen of consults/requests in sequence by inverted “order released date/time” (most recent consults first).

Includes the Service’s “Last Activity” update and the updated CPRS status for each consult/request displayed.

Provides basic “Select Action:” prompt capabilities which parallel CPRS actions. Exactly which actions are displayed depends on the privileges accorded to the person using the system. Privileged actions such as Complete (CT), Cancel (DY), Discontinue (DC), Forward (FR), Receive (RC), Schedule(SC), Significant Findings (SF), and Make Addendum (MA) are not displayed if the user cannot perform them.

To make a determination of whether a user can perform privileged actions or not, Consults checks the following fields from the Requests Services (#123.5) file:

- Service Individual to Notify—123.08
- Service Team(s) to Notify—123.08
- Update Users W/O Notifications—123.1
- Update Teams W/O Notifications—123.3
- Administrative update users—123.33
- Administrative update teams—123.34

Text Integration Utilities (TIU) Setup

The Text Integration Utilities package is essential for completing consults under V. 3.0. It gives you several benefits not previously available. Among them are the ability to use boilerplate for selected consult types and the ability to file results in the TIU data base.

In this section we first review the process of Consults resulting. Then we present two different document definition hierarchies that may be used for Consults results. Finally, we present the TIU options you need to set up the TIU part of Consults Resulting.

Consults Resulting Process

The diagram, Consults Resulting Process, shows the consults process with emphasis on the resulting phase. To complete a consult, three things must happen:

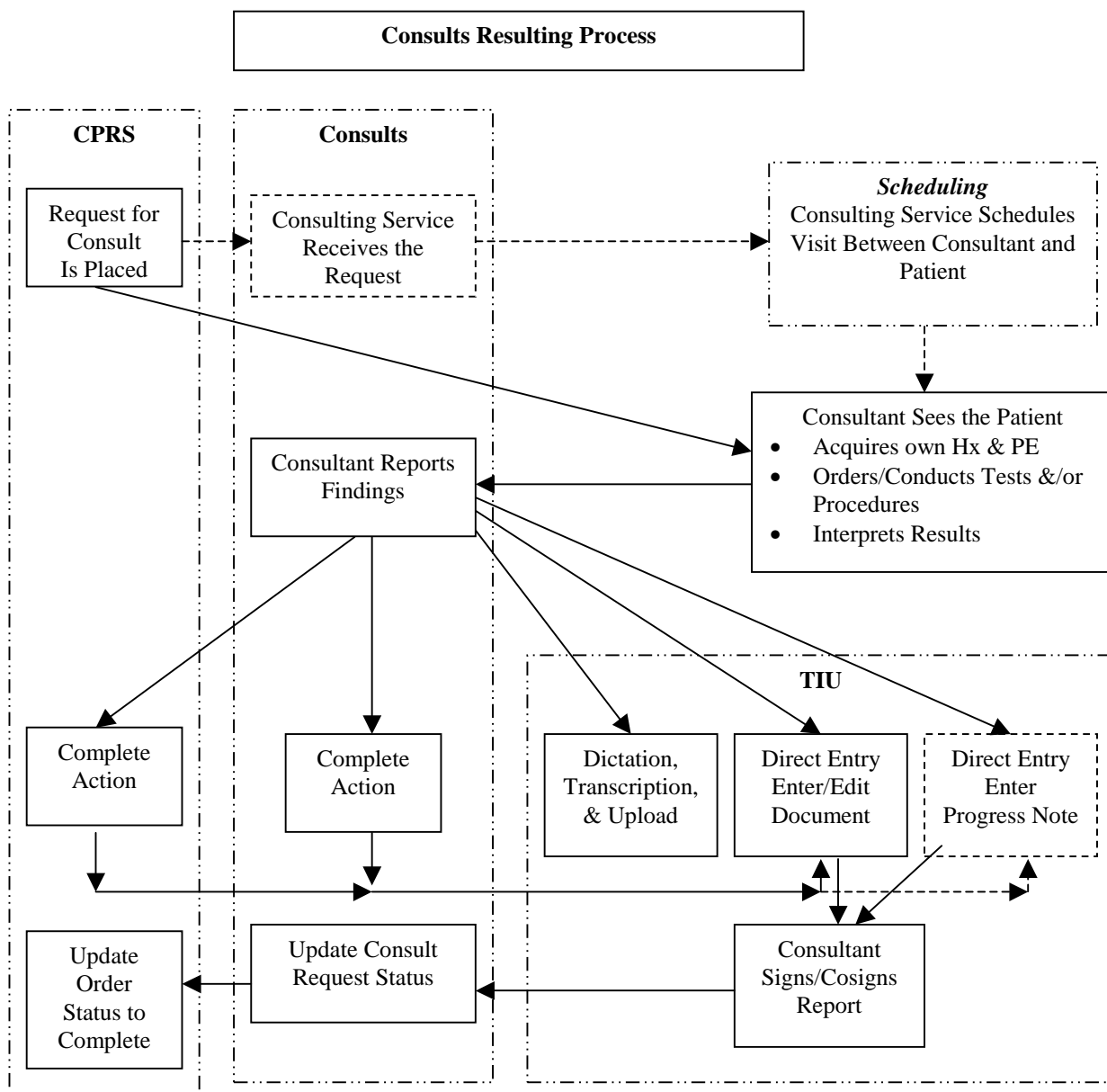
- 1) An authorized user must select the complete action.
- 2) The results must be entered or uploaded.
- 3) The results must be signed (and, if appropriate, cosigned).

If TIU's upload utility is used, the use of the complete action may be bypassed. TIU generates a notification permitting the responsible person to sign the results and complete the consult.

If the end-user is to enter the results, either the complete action prompts for results, or the results may be entered through TIU directly. If the results are entered through TIU, the user is prompted to link the TIU document with a consult request. In doing this, TIU lists consults that are available for resulting. The parameter GMRC CONSULT LIST DAYS controls how many days back TIU searches for qualifying consults. (The package default for this parameter is 365 days.)

Once these three things are accomplished, the consult is marked as complete and TIU files the results. Also, a chart copy of the completed consult may be printed.

Your site may choose to result consults by use of Progress Notes. In this case the resulting user sees essentially the same prompts, but the results entered are visible both as a consult result and in the Progress Notes system.



Recommended Document Hierarchies

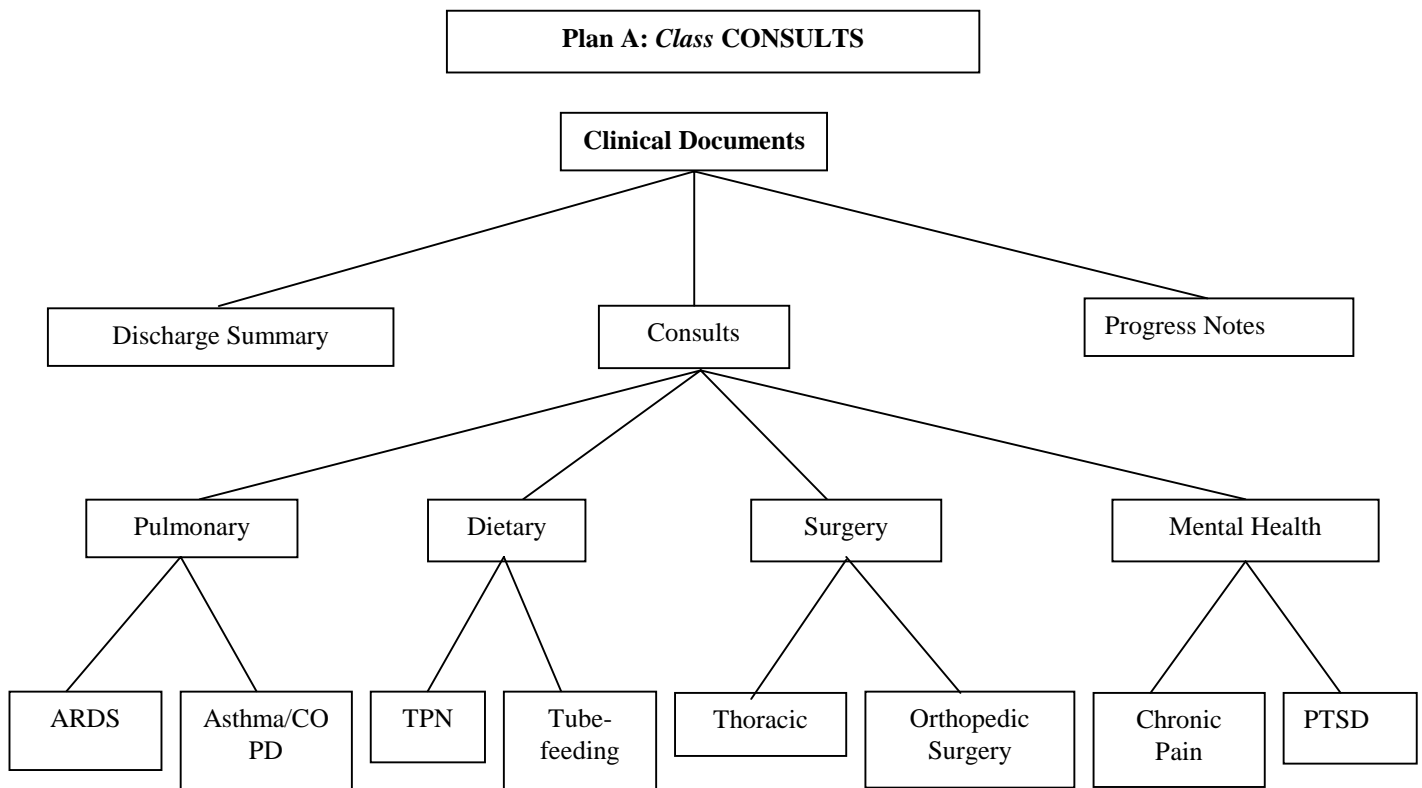
You should have TIU already set up on your system and be familiar with the *Text Integration Utilities (TIU) Implementation Guide*.

We present here two document hierarchies found useful by hospitals in the VHA system. Strategy A creates Consults as an independent class under Clinical Documents. Strategy B creates Consults as a document class under Progress Notes.

Strategy A Advantages:

Provides a CLEAR separation of Consults from Progress Notes, and minimizes the number of choices for the end-user.

1. Simple, with few concerns for maintainability (e.g., no question as to whether heritable methods and properties of Progress Notes were appropriately overridden, etc.).



Strategy A Disadvantages:

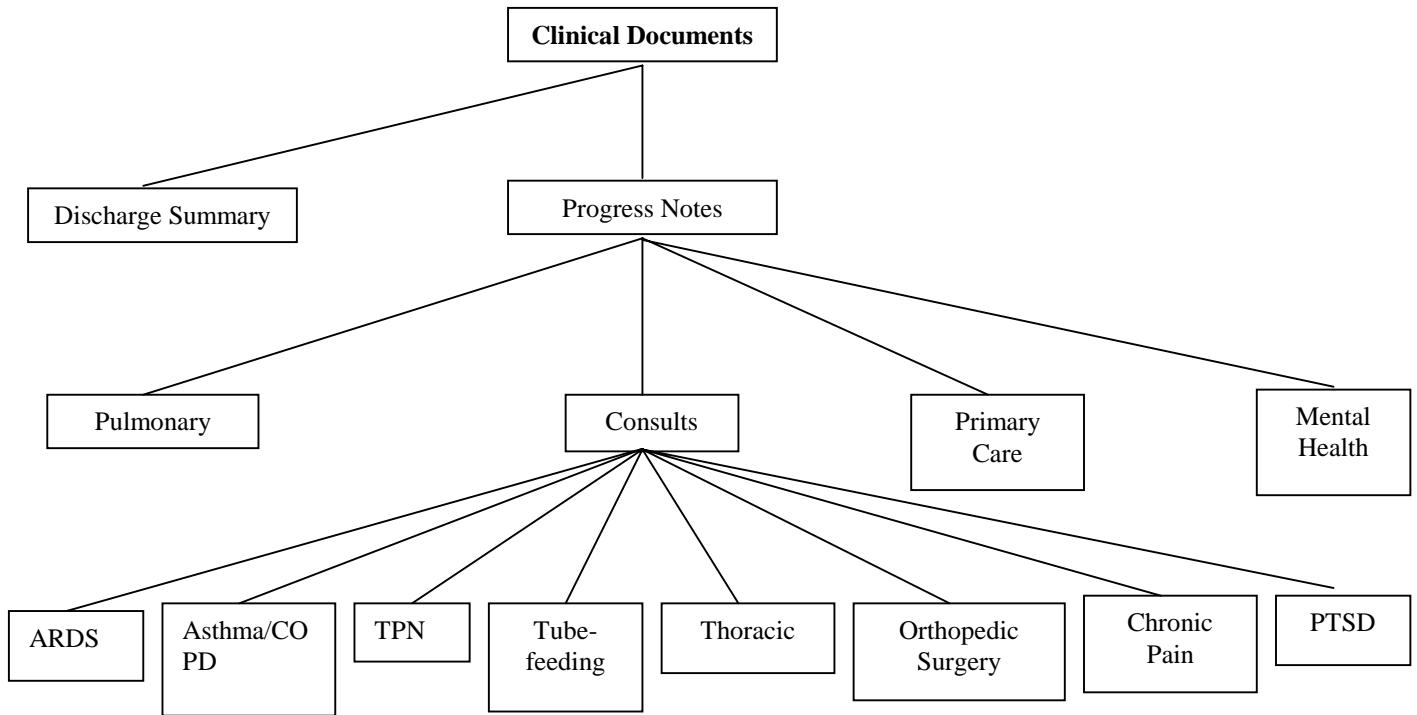
Not necessarily consistent with the way providers have been documenting their Consult Results in the past. (i.e., if they've been using PN titles to "result" consults, and referring to the notes on the SF 513's in the past, this will be a departure from that practice).

Limits flexibility of access to the information. (i.e., if set-up this way, they may only access the data through Integrated Document Management options on the TIU-side, and through the Consults tab of the CPRS chart).

Strategy B Advantages:

1. Consistent with the way many providers have been documenting their Consult Results in the past. (i.e., if they've been using PN titles to "result" consults, they may continue to do so, with the results showing up on both the 509 and SF 513).
2. Enhances flexibility of access to the information. (i.e., if set-up this way, they may access the data through any option on the TIU side, as well as through EITHER the Consults or Progress Notes tabs of the CPRS chart).

Plan B: Document Class CONSULTS



Strategy B Disadvantages:

1. Does NOT Provide a CLEAR separation of Consults from Progress Notes, and may offer too many choices for the end-user.

2. Complex, with some concerns for maintainability (e.g., if printing or filing appear incorrect, may result from heritable methods and properties of Progress Notes not being appropriately overridden, etc.).

You need to plan the set-up of the Document Definition Hierarchy in some detail, including the titles you want to use at your site, before proceeding with the TIU DEFINE CONSULTS option. The worksheet included in Appendix A of the *Text Integration Utilities (TIU) Implementation Guide* may prove useful in this process.

The option TIU DEFINE CONSULTS, exported with TIU*1*4, is used to select one or the other of these strategies and set them up at your hospital.

TIU Setup Options

TIU DEFINE CONSULTS

This option is exported with TIU*1*4. Once you have decided which Document Definition strategy to use, run the TIU DEFINE CONSULTS option. This option must be run before Consults may be completed using TIU documents.

In the following example we elect Plan B from the discussion on the preceding pages:

```
Select OPTION NAME: TIU DEFINE CONSULTS          Define CONSULTS for
TIU/CT Interface
Define CONSULTS for TIU/CT Interface

I'm going to create a new Document Definition for CONSULTS now.

GREAT! A new Document Definition has been created for CONSULTS.
Next, you need to decide whether you want CONSULTS to be set up
as a separate CLASS (comparable to DISCHARGE SUMMARY or PROGRESS
NOTES), or whether you want CONSULTS defined as a DOCUMENT CLASS
under PROGRESS NOTES. The benefits of each strategy are outlined
in the POST-INSTALLATION instructions for this patch.

NOTE: If you're not yet CERTAIN which strategy you want your site
to adopt, then quit here, and get consensus first (it's easier to
get permission than forgiveness, in this case)!

    Select one of the following:

            CL          Class
            DC          Document Class

Define CONSULTS as a CLASS or DOCUMENT CLASS: DC Document Class

Okay, you've indicated that you want to make CONSULTS a Document Class.

    Okay to continue? NO// YES

FANTASTIC! Your NEW DOCUMENT CLASS CONSULTS will now be added under
the PROGRESS NOTES Class...

Okay, I'm done...Please finish your implementation of CONSULTS by adding
any Titles as appropriate using the Create Document Definitions Option
under the TIUF DOCUMENT DEFINITION MGR Menu, as described in Step #3 of
the Post-Installation Instructions.

Press RETURN to continue...
```


Create Document Definitions

After TIU DEFINE CONSULTS has been run, you need to enter the rest of the TIU hierarchy. You should have planned this out in detail according to instructions given in the *Text Integration Utility (TIU) Implementation Guide*. The Create Document Definitions option permits you to enter this hierarchy.

In the following example, a document title CARDIOLOGY CONSULT is added to the TIU document hierarchy:

```
Select OPTION NAME: TIU IRM MAINTENANCE MENU           TIU Maintenance Menu
menu

Select TIU Maintenance Menu Option: ?

    1      TIU Parameters Menu ...
    2      Document Definitions (Manager) ...
    3      User Class Management ...

Enter ?? for more options, ??? for brief descriptions, ?OPTION for help text.

Select TIU Maintenance Menu Option: 2  Document Definitions (Manager)

                --- Manager Document Definition Menu ---

Select Document Definitions (Manager) Option: ?

    1      Edit Document Definitions
    2      Sort Document Definitions
    3      Create Document Definitions
    4      Create Objects

Enter ?? for more options, ??? for brief descriptions, ?OPTION for help text.

Select Document Definitions (Manager) Option: 3  Create Document Definitions....
.....
```

(Continued on next page.)

Create Document Definitions	Jan 15, 1998 14:07:53	Page:	1 of	1
BASICS				
	Name	Type		
1	CLINICAL DOCUMENTS	CL		
2	DISCHARGE SUMMARY	CL		
3	PROGRESS NOTES	CL		
4	ADDENDUM	DC		
5	OLD CONSULTS	CL		
6	PHYSICAL THERAPY NOTES	CL		
7	TEST CLASS	CL		
8	TEST NOTES	CL		
New Users, Please Enter '?NEW' for Help >>>				
	Class/DocumentClass	Next Level	Detailed Display/Edit	
	(Title)	Restart	Status...	
	(Component)	Boilerplate Text	Delete	
Select Action: Next Level// <Enter> Next Level				

Select CLINICAL DOCUMENTS Item (Line 2-8): 3.....

Create Document Definitions	Jan 15, 1998 14:13:20	Page:	1 of	1
BASICS				
	Name	Type		
1	CLINICAL DOCUMENTS	CL		
2	PROGRESS NOTES	CL		
3	ADVANCE DIRECTIVE	DC		
4	ADVERSE REACTION/ALLERGY	DC		
5	CRISIS NOTE	DC		
6	CLINICAL WARNING	DC		
7	HISTORICAL TITLES	DC		
8	ADDICTION SEVERITY INDEX	DC		
9	RAT NOTES	DC		
10	TEST2 NOTES	DC		
11	CONSULTS	DC		
?Help >ScrollRight PS/PL PrintScrn/List +/- >>>				
	Class/DocumentClass	Next Level	Detailed Display/Edit	
	(Title)	Restart	Status...	
	(Component)	Boilerplate Text	Delete	
Select Action: Next Level// <Enter> Next Level				

Select PROGRESS NOTES Item (Line 3-11): 11

(Continued on next page.)

Create Document Definitions		Jan 15, 1998 14:16:16	Page: 1 of 1
BASICS			
+	Name		Type
2	PROGRESS NOTES		CL
3	CONSULTS		DC
4	MEDICINE CONSULTS		TL
5	SURGERY CONSULTS		TL
6	NEUROLOGY CONSULTS		TL
7	PULMONARY CONSULTS		TL
?Help >ScrollRight PS/PL PrintScrn/List +/- >>>			
	(Class/DocumentClass)	Next Level	Detailed Display/Edit
	Title	Restart	Status...
	(Component)	Boilerplate Text	Delete
Select Action: Title// <Enter> Title			

Enter the Name of a new CONSULTS: **CARDIOLOGY CONSULTS**

CLASS OWNER: CLINICAL COORDINATOR Replace <Enter>

STATUS: (A/I/T): INACTIVE// **A** ACTIVE

SEQUENCE: **8**

MENU TEXT: Cardiology Consults//

Entry Created

If you wish, you may enter another CONSULTS: <Enter>

Create Document Definitions		Jan 15, 1998 14:20:59	Page: 1 of 1
BASICS			
+	Name		Type
2	PROGRESS NOTES		CL
3	CONSULTS		DC
4	MEDICINE CONSULTS		TL
5	SURGERY CONSULTS		TL
6	NEUROLOGY CONSULTS		TL
7	PULMONARY CONSULTS		TL
8	CARDIOLOGY CONSULTS		TL
?Help >ScrollRight PS/PL PrintScrn/List +/- >>>			
	(Class/DocumentClass)	Next Level	Detailed Display/Edit
	Title	Restart	Status...
	(Component)	Boilerplate Text	Delete
Select Action: Title//			

TIU Maintenance

Correcting Misdirected Results

Occasionally a consult result is linked to the wrong consult. If this is detected prior to signature, it is possible for the author of a consult result to re-direct the record to a different consult request by any of several methods:

1. Through the Link to Request action, when processing the alert for the unsigned Consult Result.
2. Through the Individual Patient Document option .
3. You may choose the Link action from the All My Unsigned Documents Option.
4. From the CPRS Chart.

There are examples of the above four methods in the *Consult/Request Tracking User Manual*.

Following signature, such corrections can only be made by those persons who are granted permission to do so under the Authorization/ Subscription Utility (ASU). Information on how to make this kind of correction is shown here:

```

                                --- MIS Managers Menu ---

1      Individual Patient Document
2      Multiple Patient Documents
3      Print Document Menu ...
4      Search for Selected Documents
5      Statistical Reports ...

Select Text Integration Utilities (MIS Manager) Option: S
  1      Search for Selected Documents
  2      Statistical Reports
CHOOSE 1-2: 1  Search for Selected Documents

Select Status: UNVERIFIED// COM    completed

Select CLINICAL DOCUMENTS Type(s): Discharge Summaries// ALL
      Discharge Summaries  Progress Notes  Addendum  Consults

Select SEARCH CATEGORIES: AUTHOR// PAT    Patient
Select PATIENT:      WINCHESTER,CHARLES EMERSON III      01-01-67      107010167P
ACTIVE DUTY

                                A: Known allergies

Start Reference Date [Time]: T-7//    (JAN 20, 1998)
Ending Reference Date [Time]: NOW//    (JAN 27, 1998@14:20)

Searching for the documents.
```

(Continued on the next page.)

Clinical Documents		Jan 27, 1998 14:07:13	Page:	1 of 1
by PATIENT (WINCHESTER,CHARLES EMERSON III) from 01/20/98 to		1 documents		
Patient	Document	Ref Date	Status	
1	WINCHESTER,C E(W0167) PULMONARY CONSULT	01/26/98	completed	

You must link your Result to a Consult Request...

The following CONSULT REQUEST(S) are available:

1> JAN 23, 1998@11:14 759 PULMONARY
2> JAN 23, 1998@11:14 760 PULMONARY
CHOOSE 1-2: 2 760

Refreshing the list.

Clinical Documents		Jan 27, 1998 14:07:13	Page:	1 of 1
by PATIENT (WINCHESTER,CHARLES EMERSON III) from 01/20/98 to			1 documents	
Patient	Document		Ref Date	Status
1	WINCHESTER,C E(W0167) PULMONARY CONSULT		01/26/98	completed

Medicine Interface

The Procedures module of Consult/Request Tracking has been enhanced. The two major enhancements are:

1. A complete change to the method of creating and activating procedures for use in CPRS and Consult/Request Tracking is introduced including a new file to store the procedures data.
2. The ability to link results stored in the VistA Medicine package to a procedure request has been re-established.

Procedure Setup

The following is the process used to add new procedures or to modify existing procedures:



Warning: The GMRC PROCEDURES (#123.3) file should NOT be edited via VA FileMan. The interface between CPRS and Consult/Request Tracking depends on the use of the Setup procedures [GMRC PROCEDURE SETUP] option.

```
Select Consult Management Option: PR Setup procedures
Select Procedure: GI ENDOSCOPIC
Are you adding 'GI ENDOSCOPIC' as a new GMRC PROCEDURE (the 39TH)? No// Y
(Yes)
NAME: GI ENDOSCOPIC// <Enter>
The new procedure will not be orderable unless the INACTIVE flag is deleted.
INACTIVE: YES// N <Enter> NO
Select SYNONYM: GIENDO
Are you adding 'GIENDO' as a new SYNONYM (the 1ST for this GMRC PROCEDURE)? No
// Y
(Yes)
SYNONYM: GIENDO// <Enter>
Select SYNONYM: <Enter>
Select RELATED SERVICES: GASTROENTEROLOGY
Are you adding 'GASTROENTEROLOGY' as
a new RELATED SERVICES (the 1ST for this GMRC PROCEDURE)? No// Y (Yes)
Select RELATED SERVICES: <Enter>
TYPE OF PROCEDURE: GI ENDO
1 GI ENDOSCOPIC GIENDO GI ENDOSCOPIC
2 GI ENDOSCOPIC GI ENDOSCOPIC
CHOOSE 1-2: 1 GIENDO GI ENDOSCOPIC

PREREQUISITE:
1><Enter>
PROVISIONAL DX PROMPT: ?
Enter a code to indicate the type of input allowed by CPRS when entering a
provisional diagnosis
Choose from:
O OPTIONAL
R REQUIRED
S SUPPRESS
PROVISIONAL DX PROMPT: R REQUIRED
PROVISIONAL DX INPUT: ?
Enter a code to indicate the type of input allowed by CPRS when entering a
provisional diagnosis
Choose from:
F FREE TEXT
L LEXICON
PROVISIONAL DX INPUT: L LEXICON
DEFAULT REASON FOR REQUEST:
1><Enter>
RESTRICT DEFAULT REASON EDIT: <Enter>
```

Orderable Item Updated

Select Consult Management Option:

The RELATED SERVICES field in the procedure setup indicates which services from the Consult hierarchy will receive and process procedures of this type. If more than one related service is entered in this field the ordering person will have to choose which service to direct the procedure to. The users that will be notified and the users allowed to update procedure requests of this type are determined by the receiving service.

The TYPE OF PROCEDURE field in the procedure setup essentially turns on the interface to the Medicine package for this type of procedure. The field is a pointer to the PROCEDURE/SUBSPECIALTY (#697.2) file in the Medicine package. If this field is not set, no medicine procedure results may be linked to this type of procedure request.

PROVISIONAL DX PROMPT: Used by CPRS to determine how to prompt for the provisional diagnosis when ordering this procedure. If this field is set to OPTIONAL, the user will be prompted for the provisional diagnosis but may bypass answering the prompt. If the field is set to SUPPRESS, the user will not be presented with the provisional diagnosis prompt. If set to REQUIRED, the user must answer the prompt to continue placing the order.

PROVISIONAL DX INPUT: Determines the method that CPRS uses to prompt the user for input of the provisional diagnosis when ordering this procedure. If set to FREE TEXT, the user may type any text from 2-80 characters in length. If set to LEXICON, the user will be required to select a coded diagnosis from the Clinical Lexicon.

PREREQUISITE: This word-processing field is utilized to communicate pre-requisite information to the ordering person prior to ordering this procedure. This field is presented to the ordering person upon selecting a procedure and allows them to abort the ordering at that time if they choose. TIU objects may be embedded within this field which are resolved for the current patient during ordering. Any TIU objects must be contained within vertical bars (e.g. |BLOOD PRESSURE|).

DEFAULT REASON FOR REQUEST: The default text used as the reason for request when ordering this procedure. This field allows a boilerplate of text to be imported into the reason for request when placing orders for this procedure. If the user places an order using a quick order having boilerplate text, that text supersedes any default text stored in this field. This field may contain any text including TIU objects. TIU Objects must be enclosed in vertical bars (e.g. |PATIENT NAME|).

RESTRICT DEFAULT REASON EDIT: If a DEFAULT REASON FOR REQUEST exists for this service this field effects the ordering person's ability to edit the default reason while placing an order. This variable can be set to UNRESTRICTED, NO EDITING, or ASK ON EDIT ONLY. If the third value, ASK ON EDIT ONLY, is used, the user is only allowed to edit the default reason if the order is edited before releasing to the service.

Linking Med Results to Procedure Request

In the Consult Service Tracking option and in CPRS list manager Consults tab, medicine results can be associated with the procedure request by using the complete/update action. If the selected item is a procedure and is configured for medicine resulting, users will be given the option of attaching medicine procedure result and/or writing a TIU document. In the CPRS GUI, associating medicine procedure results will be done via a separate menu item on the Action Menu of the Consults tab.

Removing Medicine Results from a Request

This patch provides a mechanism to disassociate a medicine result from a request that was linked by mistake. The ability to take this action is controlled by membership in a USR USER CLASS. A new field is exported for the REQUEST SERVICES (#123.5). Field (#1.06) RESULT MGMT USER CLASS is a pointer to the USR USER CLASS (#8930) file and the appropriate user class of individuals who may take this action should be listed here. It is recommended that the user class entered here be in line with the business rule involving the LINK action as it pertains to TIU documents.

The action to disassociate a medicine result is provided through an action on the Consult Service Tracking option or the Consults tab of CPRS list manager and CPRS GUI.

Parameters

There is one parameter associated with the Consults package, that is GMRC CONSULT LIST DAYS. This parameter controls the number of days TIU searches for consults that can be associated with a TIU note.

When completing consults from the notes tab, after selecting a title, you are given a list of consults to which the note may be linked. This list is limited to consults entered in the last 365 days by default. The parameter “GMRC CONSULT LIST DAYS” allows sites to vary this value. The default parameter “PKG” is set to 365 days.

The following example shows setting this parameter for a division (in a multi-divisional medical center) to 180 days:

```
XPAR EDIT PARAMETER Edit Parameter Values action
Edit Parameter Values
--- Edit Parameter Values ---

Select PARAMETER DEFINITION NAME: GMRC CONSULT LIST DAYS CONSULT LIST DAYS

GMRC CONSULT LIST DAYS may be set for the following:

6 Division DIV [choose from INSTITUTION]
7 System SYS [DEVCUR.ISC-SLC.VA.GOV]
9 Package PKG [CONSULT/REQUEST TRACKING]

  Select INSTITUTION NAME: SALT
  1 SALT LAKE CITY 660
  2 SALT LAKE OEX UT ISC 5000
  CHOOSE 1-2: 2 SALT LAKE OEX UT ISC 5000

----- Setting GMRC CONSULT LIST DAYS for Division: SALT LAKE OEX -----
Days: 180

GMRC CONSULT LIST DAYS may be set for the following:

6 Division DIV [choose from INSTITUTION]
7 System SYS [DEVCUR.ISC-SLC.VA.GOV]
9 Package PKG [CONSULT/REQUEST TRACKING]

Enter selection:
```


Files

* Request/Consultation (#123)

This file contains consult and request orders originating primarily via the CPRS process. Once the order exists in this file, receiving service users perform update activities. An audit trail of the update activities is maintained in this file.

* Request Action Types (#123.1)

This file identifies the action types that may be used by a service to track activity related to a consult or request.

* GMRC Procedures (#123.3)

This file identifies procedures that may be ordered and processed in CPRS.

File 123.3 must NOT be edited via VA FileMan. The interface between CPRS and Consult/Request Tracking depends on the use of the Setup procedures [GMRC PROCEDURE SETUP] option.

* Request Services (#123.5)

This file permits Services and Specialties to be grouped in a hierarchy representing the site's available services. This grouping capability may be used with Review screens to filter out consults to a service, sub service, specialty, or sub-specialty of consults/requests.

The main entry in this file is the "ALL SERVICES" entry. Other entries should be subordinate in the hierarchy.

The "ALL SERVICES" entry is used to display the hierarchy of the hospital services when the Clinician ordering the consult is prompted for "Select Service/Specialty:" to send the consult to.

File Globals

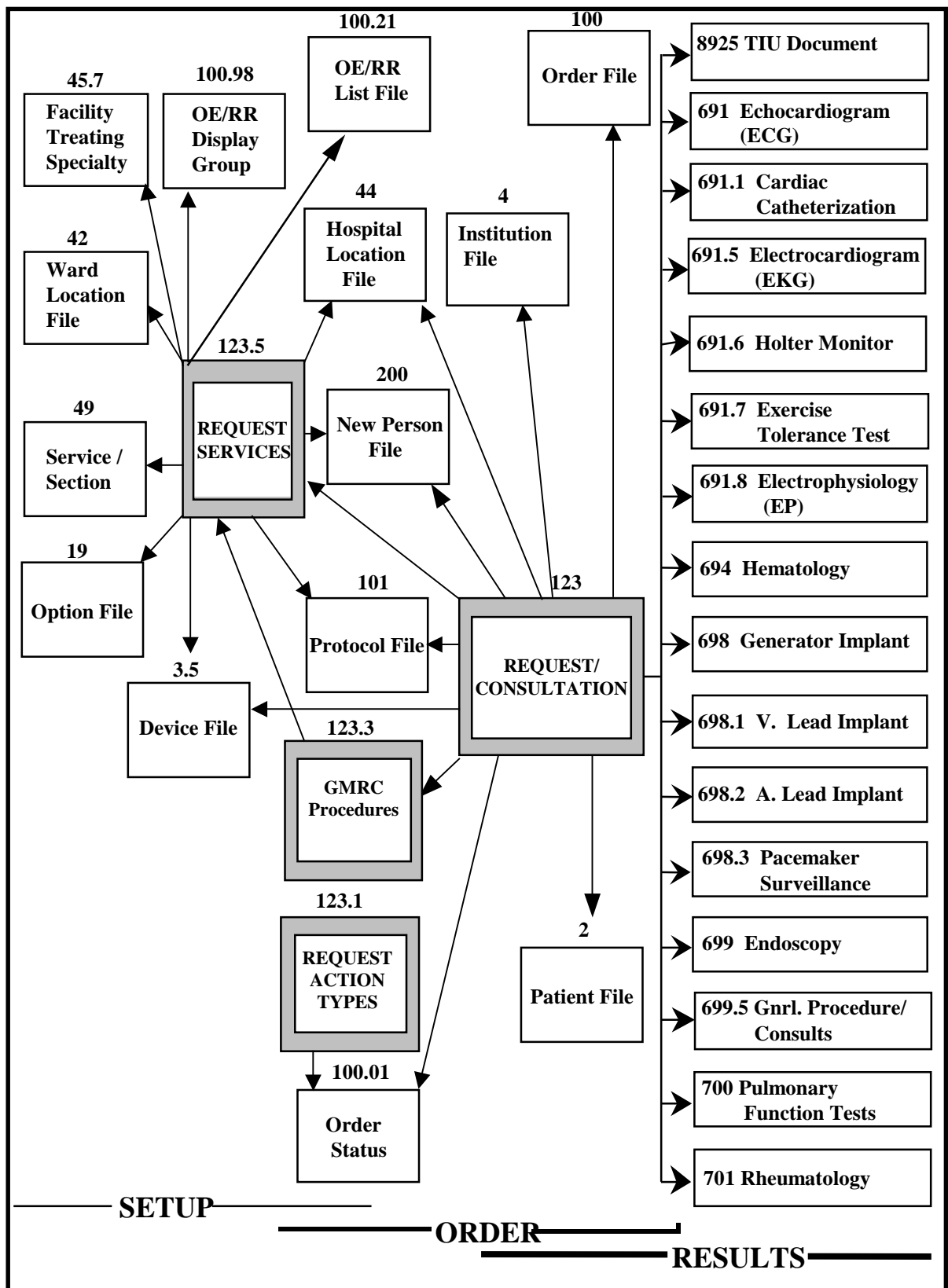
The following is a listing of the files contained in the Consults package. Listed for each file are its file number, name, global location, and an indicator as to whether or not data comes with the file.

Number	Name	Global	Data
123	REQUEST/CONSULTATION FILE	^GMR(123,	NO
123.1	REQUEST ACTION TYPES	^GMR(123.1	YES
123.3	GMRC PROCEDURES	^GMR(123.3	YES
123.5	REQUEST SERVICES	^GMR(123.5	YES

A file diagram of the above Consults package files and their relationship to other packages is shown on the following page.

Consult/Request Tracking File Diagram

(Files in are distributed with this package)



Exported Menus

There are five menus distributed with the Consults package. The GMRC MGR option is a composite of **all** Option file (#19) entries distributed in the GMRC namespace. The GMRC REPORTS is a composite of reports distributed with Consults. The GMRC GENERAL SERVICE USER, and GMRC PHARMACY USER contain the most frequently performed actions for their respective user types.

Option Name	Display Text
GMRC MGR	
GMRC REPORTS	Consults Tracking Reports
GMRC SETUP REQUEST SERVICES	Set up Consults Services
GMRC SERVICE USER MGMT	Service User Management
GMRC SERVICE TRACKING	Consults Service Tracking
GMRC PHARMACY TPN CONSULTS	Pharmacy TPN Consults
GMRCSTSU	Group Update of Consults Requests
GMRC UPDATE AUTHORITY	Determine Users' Update Authority
GMRC USER NOTIFICATION	Determine if User is Notification Recipient
GMRC NOTIFICATION RECIPS	Determine Notification Recipients for a Service
GMRC TEST DEFAULT REASON	Test Default Reason for Request
GMRC LIST HIERARCHY	List Consult Service Hierarchy
GMRC PROCEDURE SETUP	Setup Procedures
GMRC CLONE PROSTHETICS	Copy Prosthetics services
GMRC DUPLICATE SUB-SERVICE	Duplicate Sub-Service
GMRC PRINT TEST PAGE	Print Test Page

Option Name	Display Text
GMRC REPORTS	
GMRC COMPLETION STATISTICS	Completion Time Statistics
GMRC RPT PENDING CONSULTS	Service Consults Pending Resolution
GMRC RPT COMPLETE CONSULTS	Service Consults Completed
GMRC RPT COMPLETE/PENDING	Service Consults Completed or Pending Resolution
GMRC RPT NUMBERED CONSULTS	Service Consults with Consults #s
GMRC RPT CONSULTS BY STATUS	Service Consults By Status
GMRC PRINT COMPLETION STAT	Print Completion Time Statistics Report
GMRC PRINT RPT NUMBERED	Print Service Consults by Status

Option Name	Display Text
GMRC GENERAL SERVICE USER	
GMRC SERVICE TRACKING	Consults Service Tracking
GMRC RPT PENDING	Service Consults Pending
GMRC COMPLETION STATISTICS	Completion Time Statistics

Option Name	Display Text
GMRC PHARMACY USER	
GMRC PHARMACY TPN CONSULTS	Pharmacy TPN Consults
GMRC RPT PENDING	Service Consults Pending
GMRC COMPLETION STATISTICS	Completion Time Statistics

It should be noted that the following options:

GMRC PHARMACY TPN CONSULTS

GMRC SERVICE TRACKING

are options which utilize review screens and “Select Action:” capabilities similar to CPRS review screen protocol menus. These three options should be distributed to the appropriate users, based on the “Menu/Option Access” recommendations found in the Package Security section of this manual.

In addition to the Option file (#19) menu, the Protocol file (#101) has several protocol menus distributed in the GMRC namespace. These menus are not for distribution to users. These menus represent the set of responses permitted at specific prompts during Consults processing.

Cross-References

The Consults files contain the following cross-references:

Request/Consultation file (#123)

AC ^GMR(123, "AC", OE/RR FILE NUMBER, DA)

This cross-reference permits determination of the request entry in this file based on the ORIFN (pointer to File 100) from CPRS.

AD ^GMR(123, "AD", Patient, Inverted Date of Request, DA)

This is the primary cross-reference used by Consults to display consults/requests for a patient, with the most recent Date of Request first.

AD1 ^GMR(123, "AD1", Date of Request, DA)

AE ^GMR(123, "AE", To Service, CPRS Status, Inverted Date of Request, DA)

This cross-reference is used to display consults/requests for a particular service and CPRS status, with the most recent Date of Request first.

AE1 ^GMR(123, "AE1", Date of Request, DA)

AE2 ^GMR(123, "AE2", CPRS Status, DA)

B ^GMR(123, "B", File Entry Date, DA)

The "B" Cross-reference is the regular cross-reference for this file.

C ^GMR(123, "C", TO Service, DA)

The "C" cross-reference enables VA FileMan look-up of information based on the TO Service.

D ^GMR(123, "D", CPRS Status, DA)

The "D" cross-reference enables VA FileMan lookup of information based on the CPRS status.

E ^GMR(123, "E", Date of Request, DA)

The "E" cross-reference enables VA FileMan lookup of information based on the Date of Request.

F ^GMR(123, "F", Patient, DA)

The “F” cross-reference enables VA FileMan lookup of information based on the Patient Name.

G ^GMR(123,"G",sending provider,DA)

The “G” cross-reference allows look-up of consults by sending provider.

H ^GMR(123,"H",requesting location,DA)

The “H” cross-reference allows look-up of consults by the requesting location.

R ^GMR(123,"R",associated result,DA)

The “R” cross-reference allows look-up of consults based on the results associated with them.

Request Action Types file (#123.1

AC ^GMR(123.1, “AC”, CPRS Status, DA)

This cross-reference is used when the call to RESULT^GMRCR returns a CPRS status. This CPRS status is used to determine the action type to use to update activity tracking.

B ^GMR(123.1, “B”, Action Type, DA)

The “B” cross-reference is the regular cross-reference for this file.

C ^GMRC(123.1, “C”, Related Action Protocol, DA)

This cross-reference is used to associate the action type with the protocol selected from the “Select Action:” prompt. The action type internal number is then used to set the variable GMRC A for audit trail processing.

GMRC PROCEDURES file (#123.3)

AP ^GMR(123.3,"AP",protocol number,DA)

This cross-reference is utilized during the procedure conversion process and will be removed in a future enhancement.

B ^GMR(123.3,"B",procedure name,DA)

The "B" cross-reference is the regular cross-reference for this file, permitting lookup by procedure name.

C ^GMR(123,"C",synonym,DA)

The "C" cross-reference permits SYNONYMS to be used to look up the procedure by synonym.

Request Services file (#123.5)

B ^GMR(123.5, "B", Service Name, DA)

The "B" cross-reference is the regular cross-reference for this file, permitting lookup by Service Name.

C ^GMR(123.5, "C", Related Treating Specialty, DA)

The "C" cross-reference enables VA FileMan lookup of information, based on the RELATED TREATING SPECIALTY. (Note: This field exists, but is not currently used by the package.)

D ^GMR(123.5, "D", Synonym, DA)

The "D" cross-reference permits SYNONYMS to be used to find the Service to send a consult/request to.

Archiving and Purging

No archiving or purging utilities are provided in this version for the Consults distributed files.

External Relations

The Consults package is dependent upon other VA software to function correctly.

PACKAGE	VERSION	NOTES
VA FileMan	21	
OE/RR	3.0	
KERNEL	8.0 (+ Patches)	“Select Action:”prompts, and Alert capabilities
PIMS	5.3	Calls to VADPT

Private DBIA Agreements

DBA Number	Custodial Package
147	Medicine
165	OE/RR
167	Kernel
169	Kernel
181	OE/RR
510	VA FileMan
615	Medicine
616	Medicine
627	OE/RR
628	OE/RR
629	OE/RR
630	OE/RR
631	OE/RR
632	Kernel
635	OE/RR
636	OE/RR
637	OE/RR
638	OE/RR
639	OE/RR
640	OE/RR
861	OE/RR
862	OE/RR
863	OE/RR
864	OE/RR
865	OE/RR
866	OE/RR
867	OE/RR
868	OE/RR
869	OE/RR
870	OE/RR
871	OE/RR
872	OE/RR
873	OE/RR
875	OE/RR
2038	OE/RR

Internal Relations

All options are independently evocable.

Package-Wide Variables

There are no package-wide variables exported with this package, that require SACC exemption.

Package Interface

HL7 Fields

The following is a list of HL7 fields that are used in transactions between OE/RR V. 3.0 and the Consult package. Not every field will be used in every message.

SEG	SEQ	FIELD NAME	EXAMPLE	HL7 TYPE
MSH	1	Field Separator		string
	2	Encoding Characters	^~\&	string
	3	Sending Application	ORDER ENTRY	string
	4	Sending Facility	660	string
	9	Message Type	ORM	ID
PID	3	Patient ID	5340747	composite ID
	5	Patient Name	Doe,John H	patient name
PV1	2	Patient Class	I	table 4
	3	Patient Location	32^234-4	user table
	19	Visit Number	1241243	composite ID
{ ORC	1	Order Control	NW	table 119
	2	Placer Order Number	234123;1^OR	number^application
	3	Filler Order Number	870745^GMRC	number^application
	5	Order Status	IP	table 38
	7	Quantity/Timing	^^^^R	^^^^priority coded per HL7 4.4
	9	Date/Time of Transaction	199404141425	timestamp
	10	Entered By	1166	composite ID
	12	Ordering Provider	1270	composite ID
	15	Order Effective D/T	199404141430	timestamp
	16	Order Control Reason	S^Service Correction^99ORN^^	coded element
NTE	1	Set ID	16	set ID
	2	Source of Comment	L	table 105
	3	Comment	Cancelled by Service	formatted text
OBR	4	Universal Service ID	^^^58^Cardiology^99CON	coded element
	18	Placer Field 1 (used for place of consultation)	B	string
	19	Placer Field 2 (used for attention)	1044	string
	22	Results Rpt/Status Change - Date/Time	199404150635	timestamp
	25	Result Status	F	table 123
	32	Principle Result Interpreter	1345	composite ID
ZSV	1	Request Service ID	^^^12^Psychiatry^99CON	coded element
	2	Consult Type	Family Counseling	string

{ OBX }	1	Set ID	1	number
	2	Value Type	TX	table 125
	3	Observation ID	2000.02^Reason for Request^AS4	coded element
	4	Observation Sub-ID	1	string
	5	Observation Value	r/o TB	string
}	8	Abnormal Flag	N	table 78

Notes:

Sending Application is the name of the DHCP package generating the message; *Sending Facility* is the station number.

Patient ID is patient DFN (pointer to file 2)

Patient Location, for an inpatient, is Hospital Location IEN^Room-Bed. For an outpatient, it is the Hospital Location IEN. In both cases it is the location from which the order is being placed.

Visit Number is the IEN of the visit in the Visit file.

Placer Order Number is the OE/RR order number.

Filler Order Number is the Consult order number.

Order Status is needed when Consults releases an order; possible values from HL7 table 38 include:

DC=Discontinued	SC=Active	A=Partial Results
CM=Completed	ZC=Scheduled	CA=Cancelled (Denied)
IP=Pending		RP=DC'd due to Edit

Quantity/Timing will contain only the urgency in the sixth ^-piece, whose possible values include:

S=Stat	Z24=Within 24 hours	ZW=Within 1 week
R=Routine	Z48=Within 48 hours	ZM=Within 1 month
ZT=Today	Z72=Within 72 hours	ZNA=Next available
ZE=Emergency		

Entered By and *Ordering Provider* are IENs in the New Person file.

Universal Service ID is a national code in the first part. The alternate code is a pointer to either the Request Services or GMRC Procedures file.

Placer Field 1 will contain the place of consultation, as a set of codes. Possible values include:

B=Bedside
E=Emergency Room
OC=Consultant's choice

Placer Field 2 will contain the IEN in the New Person file of the user to whom this consult should be directed.

The OBX segment is used to transmit related data about the patient when placing a consult request; possible observation ID's include:

Reason for Request (AS4 2000.02) = text
Provisional Diagnosis (not coded) = text
Provisional Diagnosis (coded element) = ICD ^ text

The Observation ID is used for ordering OBX segments.

Order Event Messages

The following tables identify the HL7 fields that are passed in each kind of event associated with OE/RR. For each event there is an order control code and a set of fields listed. For any given event, however, some of the fields may be empty (observation sub-id, for example).

The protocols identified in the tables use OE/RR namespacing conventions. The messages sent by OE/RR will use the OR namespaced protocols indicated. Individual packages may use whatever protocol names they wish.

Front Door – Consults

Action	Request from OE/RR	Consults accepts	Consults rejects
Protocol	OR EVSEND GMRC	GMRC EVSEND OR	GMRC EVSEND OR
Order Control	NW (new order)	OK (accepted)	OC (canceled)
HL7 Fields	MSH: 1,2,3,4,9 PID: 3,5 PV1: 2,3,19 ORC: 1,2,7,10,12,15 OBR: 4,18,19 OBX: 1,2,3,5	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3,12,15,16 OBR: 4
Protocol	OR EVSEND GMRC	GMRC EVSEND OR	GMRC EVSEND OR
Order Control	CA (cancel) DC (discontinue) HD (hold) RL (release)	CR (canceled) DR (discontinued) HR (held) OR (released)	UC (unable to cancel) UD (unable to dc) UH (unable to hold) OC (order canceled)
HL7 Fields	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3,10,12,15,16	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3,5	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3,16

Example: Pulmonary Consult at bedside to rule out pneumonia

```
New Order
Array: MSG(1)="MSH|^~\&|ORDER ENTRY|660|||ORM"
      MSG(2)="PID||270|CUMQUAT,EARNEST Q."
      MSG(3)="PV1|I|12^4101-B|||||||10185"
      SG(4)="ORC|NW|934;1^OR|||||^R||10|6||199409151430"
      MSG(5)="OBR|||^25^99CON|||||||B|1044"
      MSG(6)="OBX|1|TX|2000.02^Reason for Request^AS4|1|R/o pneumonia"
      MSG(7)="OBX|2|TX|^Provisional Diagnosis|1|Viral infection"
Call: D MSG^XQOR("OR EVSEND GMRC",.MSG) ; New order from OE/RR
Array: MSG(1)="MSH|^~\&|CONSULTS|660|||ORR"
      MSG(2)="PID||270|CUMQUAT,EARNEST Q."
      MSG(3)="ORC|OK|934;1^OR|233445^GMRC"
Call: D MSG^XQOR("GMRC EVSEND OR",.MSG) ; Consults accepts, returns order #

Hold an Order
Array: MSG(1)="MSH|^~\&|ORDER ENTRY|660|||ORM"
      MSG(2)="PID||270|CUMQUAT,EARNEST Q."
      MSG(3)="ORC|HD|92234;2^OR|233445^GMRC||||10|6||199409151430"
Call: D MSG^XQOR("OR EVSEND GMRC",.MSG) ; OE/RR requests holding order
      MSG(2)="PID||270|CUMQUAT,EARNEST Q."
      MSG(3)="ORC|HR|92234;2^OR|233445^GMRC"
Call: D MSG^XQOR("GMRC EVSEND OR",.MSG) ; Consults holds order

Discontinue an Order
Array: MSG(1)="MSH|^~\&|ORDER ENTRY|660|||ORM"
      MSG(2)="PID||270|CUMQUAT,EARNEST Q."
      MSG(3)="ORC|DC|92234;3^OR|233445^GMRC||||10|6||199409151430"
Call: D MSG^XQOR("OR EVSEND GMRC",.MSG) ; OE/RR requests discontinuing order
Array: MSG(1)="MSH|^~\&|CONSULTS|660|||ORR"
      MSG(2)="PID||270|CUMQUAT,EARNEST Q."
      MSG(3)="ORC|DR|92234;3^OR|233445^GMRC"
Call: D MSG^XQOR("GMRC EVSEND OR",.MSG) ; Consults discontinues order
```

Example: EKG at bedside

```
New Order
Array: MSG(1)="MSH|^~\&|ORDER ENTRY|660|||ORM"
      MSG(2)="PID||270|CUMQUAT,EARNEST Q."
      MSG(3)="PV1|I|12^4101-B|||||||10185"
      MSG(4)="ORC|NW|935;1^OR|||||^R||10|6||199409151430"
      MSG(5)="OBR|||^2553^99PRO|||||||B|1044"
      MSG(6)="OBX|1|TX|2000.02^Reason for Request^AS4|1|Monitoring progress"
Call: D MSG^XQOR("OR EVSEND GMRC",.MSG) ; New order from OE/RR
Array: MSG(1)="MSH|^~\&|CONSULTS|660|||ORR"
      MSG(2)="PID||270|CUMQUAT,EARNEST Q."
      MSG(3)="ORC|OK|935;1^OR|233446^GMRC"
Call: D MSG^XQOR("GMRC EVSEND OR",.MSG) ; Consults accepts, returns order #
```

New Order	
Array:	MSG(1)="MSH ^~\& ORDER ENTRY 660 ORM" MSG(2)="PID 270 CUMQUAT,EARNEST Q." MSG(3)="PVI I 12^4101-B " MSG(4)="ORCNW 936;1^OR ^R 199409151425 10 6 199409151430" MSG(5)="OBR ^15^PSYCHIATRY^99CON OC 1044" MSG(6)="ZSV ^15^PSYCHIATRY^99CON Family Counseling" MSG(7)="OBX 1 TX 2000.02^Reason for Request^AS4 1 "
Call:	D MSG^XQOR("OR EVSEND GMRC",.MSG) ; New order from OE/RR
Array:	MSG(1)="MSH ^~\& CONSULTS 660 ORR" MSG(2)="PID 270 CUMQUAT,EARNEST Q." MSG(3)="ORCOK 936;1^OR 233447^GMRC"
Call:	D MSG^XQOR("GMRC EVSEND OR",.MSG); Consults accepts, returns order #

Back Door Consults

Back door orders are handled by sending OE/RR the ORM message for a Consult order with a 'send number' order control code. This permits OE/RR to store the order in its database and return the OE/RR order number to consults with a 'number assigned' order control code. OE/RR cannot actually reject Consult events. The 'data errors' order control code is just used as some way to communicate to Consults that OE/RR could not interpret the ORM message. This should generally not happen. Use of the 'back door' by packages for ordering is optional. It is still necessary to post an event when results are available.

Back Door – Consults

Action	Event from Consults	OE/RR accepts	OE/RR rejects
Protocol	GMRC EVSEND OR	OR EVSEND GMRC	OR EVSEND GMRC
Order Control	SN (send number)	NA (number assigned)	DE (data errors)
HL7 Fields	MSH: 1,2,3,4,9 PID: 3,5 PV1: 2,3,19 ORC: 1,3,7,10,12,15 OBR: 4,18,19 OBX: 1,2,3,4,5	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,3,16
Protocol	GMRC EVSEND OR		OR EVSEND GMRC
Order Control	OC (cancel) OD (discontinue) OH (hold) RL (release)	There is no return event. OE/RR must accept the instruction from Consults.	DE (data errors)
HL7 Fields	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3,12,15,16 OBR: 4		MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3,16
Protocol	GMRC EVSEND OR		OR EVSEND GMRC
Order Control	SC (accepted)		DE (data errors)

Action	Event from Consults	OE/RR accepts	OE/RR rejects
HL7 Fields	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3,5,12,15 OBR: 4	There is no return event. OE/RR must accept the instruction from Consults.	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3,16
Protocol	GMRC EVSEND OR		OR EVSEND GMRC
Order Control	XX (forwarded)		DE (data errors)
HL7 Fields	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3,7,10,12,15 OBX: 1,2,3,4,5	There is no return event. OE/RR must accept the instruction from Consults.	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3,16
Protocol	GMRC EVSEND OR		OR EVSEND GMRC
Order Control	RE (completed)		DE (data errors)
HL7 Fields	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3,12,15 OBR: 4,7,22,25,32 OBX: 1,2,3,4,5,8	There is no return event. OE/RR must accept the instruction from Consults.	MSH: 1,2,3,4,9 PID: 3,5 ORC: 1,2,3,16

Example: Pulmonary consult at bedside to rule out pneumonia

New Order

Array: MSG(1)="MSH|^~\&|CONSULTS|660|||ORM"
 MSG(2)="PID||270|CUMQUAT,EARNEST Q."
 MSG(3)="PV1|I|1D^4101-B|||10185"
 MSG(4)="ORC|SN|233445^GMRC|||10|6||199409151430"
 MSG(5)="OBR|||^25^99CON|||B|1044"
 MSG(6)="OBX|1|TX|2000.02^Reason for Request^AS4|1|R/o pneumonia"
Call: D MSG^XQOR("GMRC EVSEND OR",.MSG) ; New order from Consults

Array: MSG(1)="MSH|^~\&|ORDER ENTRY|660|||ORR"
 MSG(2)="PID||270|CUMQUAT,EARNEST Q."
 MSG(3)="ORC|NA|92234^OR|234455^GMRC"
Call: D MSG^XQOR("OR EVSEND GMRC",.MSG) ; OE/RR returns order number

Discontinue an Order

Array: MSG(1)="MSH|^~\&|CONSULTS|660|||ORM"
 MSG(2)="PID||270|CUMQUAT,EARNEST Q."
 MSG(3)="ORC|OD|92234^OR|234455^GMRC|||^^^Denied by service"
Call: D MSG^XQOR("GMRC EVSEND OR",.MSG) ; Consults discontinued order

Service Accepted the Order

Array: MSG(1)="MSH|^~\&|CONSULTS|660|||ORM"
 MSG(2)="PID||270|CUMQUAT,EARNEST Q."
 MSG(3)="ORC|SC|92234^OR|234455^GMRC"
 MSG(4)="OBR|||^25^99CON"
Call: D MSG^XQOR("GMRC EVSEND OR",.MSG) ; Consults accepted order

Completed Order

Array: MSG(1)="MSH|^~\&|CONSULTS|660|||ORU"
 MSG(2)="PID||270|CUMQUAT,EARNEST Q."
 MSG(3)="ORC|RE|92234^OR|234455^GMRC"
 MSG(4)="OBR|||^25^99CON||199409160810|||199409160910||F||455"
 MSG(5)="OBX|1|TX|^25^99CON|Pneumonia||A"
Call: D MSG^XQOR("GMRC EVSEND OR",.MSG) ; Consults completed order

Orderable Item Updates

When Consults makes request services available for ordering, OE/RR needs to be notified. This is done via a protocol event point which should be defined by Consults. When this event point is invoked, an HL7 master file update message is sent. Information that should be available in this segment is listed in the following table.

SEG	SEQ	FIELD NAME	EXAMPLE	HL7 TYPE
MSH	1	Field Separator		string
	2	Encoding Characters	^~\&	string
	3	Sending Application	CONSULTS	string
	4	Sending Facility	660	string
	9	Message Type	MFN	ID
MFI	1	Master File ID	123.5^Request Services^99DD	coded element
	3	File-Level Event Code	REP	table 178
	6	Response Level Code	NE	table 179
{ MFE	1	Record-Level Event Code	MAD	table 180
	4	Primary Key	^^^25^Cardiology Consult^99CON	coded element
ZCS	1	Service Usage	2	coded value (1=Grouper only, 2=Tracking only)
{ ZSY }	1	Set ID	1	Numeric
}	2	Synonym	CARD	string

Notes:

When doing the initial population of the orderable items file, the File Level Event Code should be REP. After the initial population, subsequent changes should have the UPD code.

Orderable item updates always originate from Consults.

There may be multiple MFE segments passed in a single transaction.

The record-level event code tells whether this transaction is an update, addition, inactivation, etc.

The primary key is the coded element that is normally passed when creating an order. By using the coded element, we can know the national and local names for a consult.

Example:

Adding new request services

```

Array:      MSG(1)="MSH|^~\&|CONSULTS|660|||MFN"
              MSG(2)="MFI|123.5^Request Services^99DD||REP||NE"
              MSG(3)="MFE|MAD|||^4^CARDIOLOGY^99CON"
              MSG(4)="ZCS|2"
Call:      D MSG^XQOR("GMRC ORDERABLE ITEM UPDATE",.MSG)
  
```

Inactivating a request service

Array:	MSG(1)="MSH ^~\& CONSULTS 660 MFN"
	MSG(2)="MFI 123.5^Request Services^99DD UPD NE"
	MSG(3)="MFE MDC ^2^MEDICINE^99CON"
Call:	D MSG^XQOR("GMRC ORDERABLE ITEM UPDATE",.MSG)

Orderable Item Updates

When Consults makes procedures available for ordering or inactivates a procedure, OE/RR needs to be notified. This is done via a protocol event point which should be defined by Consults. When this event point is invoked, an HL7 master file update message is sent. Information that should be available in this segment is listed in the following table.

SEG	SEQ	FIELD NAME	EXAMPLE	HL7 TYPE
MSH	1	Field Separator		string
	2	Encoding Characters	^~\&	string
	3	Sending Application	PROCEDURES	string
	4	Sending Facility	660	string
	9	Message Type	MFN	ID
MFI	1	Master File ID	123.3^Procedures^99DD	coded element
	3	File-Level Event Code	REP	table 178
	6	Response Level Code	NE	table 179
{ MFE	1	Record-Level Event Code	MAD	table 180
	4	Primary Key	^^^1225^Electrocardiogram^99PRC	coded element
{ ZSY}	1	Set ID	1	numeric
}	2	Synonym	EKG	string

Notes:

When doing the initial population of the orderable items file, the File Level Event Code should be REP. After the initial population, subsequent changes should have the UPD code.

Orderable item updates always originate from Consults.

There may be multiple MFE segments passed in a single transaction.

The record-level event code tells whether this transaction is an update, addition, inactivation, etc.

The primary key is the coded element that is normally passed when creating an order. By using the coded element, we can know the national and local names for a procedure.

Example:

Adding new procedures

```

Array:      MSG(1)="MSH|^~\&|PROCEDURES|660|||MFN"
              MSG(2)="MFI|123.3^GMRC PROCEDURE^99DD|REP||NE"
              MSG(3)="MFE|MAD|||^1688^Atrial Lead Implant^99PRC"
              MSG(4)="ZSY|1|A-L Imp"
              MSG(5)="MFE|MAD|||^1705^Bone Marrow Aspirate^99PRC"
Call:      D MSG^XQOR("GMRC ORDERABLE ITEM UPDATE",.MSG)
  
```

Inactivating a procedure

```

Array:      MSG(1)="MSH|^~\&|PROCEDURES|660|||MFN"
              MSG(2)="MFI|123.3^GMRC PROCEDURE ^99DD|UPD||NE"
              MSG(3)="MFE|MDC|||^1705^Bone Marrow Aspirate^99PRC"
Call:      D MSG^XQOR("GMRC ORDERABLE ITEM UPDATE",.MSG)
  
```


Ordering Parameters

There are no Consult ordering parameters identified at this time.

Procedure Calls

We need entry points defined in the Consults package that will handle the following procedure calls. It is up to the developers exactly how entry points are defined and named. Note that to behave properly in a windowed environment, all variables used in the calls must be NEWed properly. The calls must also be silent (no reads or writes).

Return Consult/Procedure List

OER^GMRCSLM1(DFN,SERV,BEG,END,STS,CPRS)

passed: DFN: Patient DFN
SERV: Request service IEN
BEG: Beginning date
END: Ending date
STS: Order status IEN
CPRS: 1=CPRS List Manager, 2=CPRS GUI
returned: ^TMP("GMRCR",\$J,"CS",#,0) = IEN^request date^order status^
service^procedure name or consult

Return Narrative of Report

DT^GMRCSLM2(IEN)

passed: IEN: IEN of request in Request/Consultation file #123
returned: ^TMP("GMRCR",\$J,"DT",#,0) = line of report text

Return Results Report

RT^GMRCGUA(IEN,ARRAY)

passed: IEN: IEN of request in Request/Consultation file #123
ARRAY: name of array to return report text
returned: @ARRAY@(#,0) = line of report text

Return List of Services the Current User may Order From

SERV1^GMRCASV

passed: GMRCTO: 1
GMRCDG: 1
returned: ^TMP("GMRCSLIST",\$J,#) = IEN^service name^grouper IEN^+^usage
where + indicates a grouper with members following,
and Usage is 1 if Grouper Only or 2 if Tracker Only

Return List of Services for a Procedure

GETSVC^GMRCPRO(.ARRAY,ID)

passed: ARRAY: array to return list of services
ID: procedure identifier, in HL7 format `IEN;99PRC`
returned: ARRAY=number of services in list
ARRAY(#) = IEN ^ name of service

Return Default Reason for Request

GETDEF^GMRCDRFR (ARRAY, SERV, DFN, RESLV)

passed: ARRAY: name of array to return default text
 SERV: IEN of Request Service in file #123.5
 DFN: Patient DFN [optional]
 RESLV: 1 or 0, if embedded TIU objects are to be resolved
returned: @ARRAY@(#,0) = line of text

Return Allowable Editing Flag for Reason

\$\$REAF^GMRCDRFR (IEN)

passed: SERV: IEN of Request Service in file #123.5
returned: 0 if unrestricted, 1 for Edit only, or 2 if no editing allowed

Return Provisional Diagnosis requirements

\$\$PROVDX^GMRCUTL1 (SERV)

passed: SERV: IEN of Request Service in file #123.5
returned: A^B: A = O (optional), R (required), or S (suppress)
 B = F (free text) or L (Lexicon entry)

How to Generate On-Line Documentation

Routines

The namespace for the Consults package is GMRC. A listing/printout of any or all of the Consults routines can be produced by using the Kernel option XUPRROU (List Routines). This option is found on the XUPROG (Programmer Options) menu, which is a sub-menu of the EVE (Systems Manager Menu) option. When prompted with "routine(s) ? >:" type in GMRC* to get a listing of all Consults routines.

The first line of each routine contains a brief description of the general function of the routine. A listing of just the first line of each Consults routine can be produced by using the Kernel option XU FIRST LINE PRINT (First Line Routine Print). This option is found on the XUPROG (Programmer Options) menu, which is a sub-menu of the EVE (Systems Manager Menu) option.

Globals

The globals used in the Consults package are ^GMR(123, ^GMR(123.1, ^GMR(123.3 and ^GMR(123.5. A listing/printout of any of these globals can be produced by using the Kernel option XUPRGL (List Global). This option is found on the XUPROG (Programmer Options) menu, which is a sub-menu of the EVE (Systems Manager Menu) option.

Files

The number-space for Consults files is 123. A listing of these files can be obtained by using the VA FileMan option DILIST (List File Attributes). Depending on the FileMan template used to print the listing, this option will print out all or part of the data dictionary for the Consults files.

Menu/Options

The menu and options exported by the Consults package all begin with the GMRC namespace. Individual options can be viewed by using the Kernel option XUINQUIRE (Inquire). This option is found on the menu XUMAINT (Menu management), which is a sub-menu of the EVE (Systems Manager Menu) option.

A diagram of the structure of the Consults menu and its options can be produced by using the Kernel option XUUSERACC (Diagram Menus). Choosing XUUSERACC permits you to further select XUUSERACC1 or XUUSERACC2 menu diagrams with entry/exit actions or abbreviated menu diagrams. This option is found on the menu XUMAINT (Menu management), which is a sub-menu of the EVE (Systems Manager Menu) option.

XINDEX

XINDEX is a routine that produces a report called the VA Cross-Referencer. This report is a technical and cross-reference listing of one routine or a group of routines. XINDEX provides a summary of errors and warnings for routines that do not comply with VA programming standards and conventions, a list of local and global variables and what routines they are referenced in, and a listing of internal and external routine calls.

XINDEX is invoked from programmer mode: D ^XINDEX.

When selecting routines, select GMRC*.

Glossary

Action	An action in Consults can be selected throughout processing to 1) control screen movement, or 2) process existing orders.
Consult	Referral of a patient by the primary care physician to another hospital service/specialty, to obtain a medical opinion based on patient evaluation and completion of any procedures, modalities, or treatments the consulting specialist deems necessary to render a medical opinion. For instance, if a primary care physician orders a patient evaluation from Cardiology Service, and the cardiology specialist orders an Electrocardiogram (EKG) to complete the evaluation and provide an opinion concerning the patient's condition, this type of order is considered a "Consult."
Discontinued Orders	Orders that are discontinued. When an order is discontinued, it must be completely re-entered to be resubmitted. However, if an order is <i>canceled</i> , it can be edited to correct some deficiency and resubmitted.
Order	A request for a consult (service/sub-specialty evaluation) or procedure (Electrocardiogram) to be completed for a patient.
Order Cancellation	The cancellation of a consult or procedure request which allows the requesting provider to edit a portion of the original request and re-submit the request to the consulting service.
Order Discontinuation	A request to stop (discontinue) performance of a consult/procedure request.

Procedure Request	Any procedure (EKG, Stress Test, etc.) which may be ordered from another service/specialty without requiring formal consultation first.
Result	A consequence of an order. Refers to evaluation or status results. In regards to Consult/Request Tracking, results refer to a TIU document or Medicine procedure result attached to the consult or procedure request.
Requestor	This is the health care provider (e. g., the physician/clinician) who requests the order to be done.
Screen Context	This term refers to the particular selection of orders displayed on the screen (e. g., Medicine consults for the patient Ralph Jones).
Service	A clinical or administrative specialty (or department) within a Medical Center.
Status	A result that indicates the processing state of an order; for example, a Cardiology Consult order may be “discontinued (dc)” or “completed (c)”.
Status Symbols	Codes used in order entry and Consults displays to designate the status of the order.

Appendix A: Install, Planning, and Implementation Checklist

This checklist can help you determine if you have completed the steps needed to implement the Consults package. IRMS/ADPAC personnel should carefully read the *Consult/Request Tracking Technical Manual* for the details related to IRMS/ADPAC implementation.



NOTE: Important changes since Consults/Request Tracking Version 2.5 are emphasized with a note.

INSTALL NOTES:

- ☐ The Consult/Request Tracking V. 3.0 package installs automatically when CPRS V. 1.0 installed.

PLANNING NOTES:

Participants: IRMS/ADPAC and Service personnel.



NOTE: Effective with Consults/Request Tracking V. 3.0:

- 1) A service is only selectable for update/tracking if it is defined as part of the ALL SERVICES hierarchy.
- 2) Disabled services can be left in the ALL SERVICES hierarchy so their order results can be returned, but are not selectable in the ordering process.
- 3) Tracking services must be in the ALL SERVICES hierarchy in order to be receive forwarded consults. The tracking service can only be selectable in the order forwarding process if the user is an update user for the tracking service or its parent service.

Plan the Consult Service Hierarchy

- ☐ 1a. Identify services to receive consults.
- ☐ 1b. Determine if the service should be selectable in the ordering process from CPRS.

For some consults, the order may need to be sent to a Service control point for Forwarding by the control point to a service which has been identified as a “Tracking Only” service. (Tracking Only services are not selectable during the initial CPRS order process.) Where a service control point is preferred, the tracking services should be sub-specialties under the control point service within the ALL SERVICES hierarchy.

- ☐ 1c. Determine if there should be a service that would be used as a “Grouper Only” (e.g., Inpatient Services, Outpatient Services, and Outside Services might be good Services to define as groupers).

When a Grouper Only service is selected in the CPRS order process, the service hierarchy defined under the grouper service will be displayed to select from. The Grouper Only cannot be selected to receive an order. The ALL SERVICES service is a Grouper Only provided to build the Consult Service hierarchy upon.

For each Service:

Identify the Service

- ☐ 2a. Select a unique name to identify the service while ordering.
- ☐ 2b. Optionally, select an abbreviated print name to be used when displaying notifications. This should be a short name that is easily recognized by users as belonging to the service.
- ☐ 2c. Optionally, select one or more synonyms that can be used when entering the service name into the computer.
- ☐ 3. Identify the service printer which will be used to automatically print Consult Form SF 513 when a consult order is received from CPRS.



NOTE: Effective with Consult/Request Tracking V. 3.0, All Consult Form SF 513 prints are done from consult routines. OE/RR print formats are no longer used for consult prints.

Plan Actions to take for a Discontinued Consult

- ☐ 4a. Decide if the service should be notified when a consult is discontinued.
- ☐ 4b. Decide if the SF 513 should be reprinted to the receiving service when a consult is discontinued.

Determine Provisional Diagnosis requirements for the service.

- ☐ 5a. Decide if consults going to this service should be required to have a provisional diagnosis. The provisional diagnosis can be required, set as optional, or suppressed.
- ☐ 5b. Decide if provisional diagnosis going to this service should be taken from the Clinical Lexicon, or if free text is allowed.

Plan Prerequisites and Boilerplate

- ☐ 6. Decide if consults going to this service should have a prerequisite. A prerequisite is a text message that reminds the referring physician what needs to be done before a consult can be sent to this service. The prerequisite message gives the referring physician a chance to back out of the consult dialog.
- ☐ 7a. Decide if consults going to this service should provide a default reason for request when an order is placed. This is a piece of boilerplate text, including TIU objects, that is consistent for each consult received.
- ☐ 7b. Decide if editing of the default reason for request should be restricted. Editing can be unrestricted, restricted, or allowed only before release to the service.

Plan Notification Recipients

- ☐ 8a. Identify individuals at the receiving service who should be notified when a consult is being sent to the receiving service.

- ☐ 8b. Identify service teams of clinicians or service users which should receive notifications. Team definitions may be used in addition to or in lieu of naming individuals to receive notifications.
- ☐ 8c. Identify hospital locations that are assumed to be part of this service. Any consult activity on patients in that location triggers a notification. Specify one individual to notify and/or a team to notify.
- ☐ 9. Decide if parent services of this service should be notified of activities occurring on consults for this service.
- ☐ 10. Decide if notifications should be deleted on an individual basis, or if all notifications should be deleted when one individual reviews it. The default is Individual Recipient, so if All Recipients is desired, use the Set Deletion Parameters for Notifications option of the Notification Mgmt Menu to change this value for each of the four consult notifications. These are:
 - #23 CONSULT/REQUEST RESOLUTION
 - #27 NEW SERVICE CONSULT/REQUEST
 - #30 CONSULT/REQUEST CANCEL/HOLD
 - #63 CONSULT/REQUEST UPDATED

Plan Service Users

- ☐ 10. Decide if you are going to allow unrestricted access to this service. If so, you may skip to step 13.
- ☐ 11a. Identify individuals at the receiving service who will NOT receive notifications about new consults, but should be able to perform update capabilities for this service.
- ☐ 11b. Identify teams at the receiving service who will NOT receive notifications about new consults, but should be able to perform update capabilities for this service.
- ☐ 11b. Identify user classes who will NOT receive notifications about new consults, but should be able to perform update capabilities for this service.
- ☐ 11e. Identify administrative update users. Such a user can perform administrative completions on consults at this service. These users can, optionally, be included as notifications recipients for this service.
- ☐ 11f. Identify administrative update teams for this service. The members of these teams can, optionally, be included as notifications recipients for this service.
- ☐ 12. Decide if update users of the parent services should be allowed to update consults for this service.
- ☐ 13. Identify a special updates individual (someone who can perform group updates) for this service. This individual should already be a service user.
- ☐ 14. Identify sub-services of this service.

IMPLEMENTATION AND MAINTENANCE (Abbreviated guidelines)

Participants: IRMS/ADPAC

- ☐ 1. You may set up a team for each consult service. The team members being the identified clinical users. Use the Team Mgmt Menu option, ORLP TEAM MENU.
- ☐ 2. Turn on the NEW SERVICE CONSULT/REQUEST notification for each of the individuals who were identified to receive notifications. Use the Enable/Disable Notifications option of the NOTIFICATION MGMT MENU, ORB NOT MGR MENU.



NOTE: Unless Consult notifications are set to mandatory, individual users may use the Enable/Disable My Notifications option of the Notifications Management Menu to individually disable the notifications they do not want to receive.

- ☐ 3. Turn on the CONSULT/REQUEST RESOLUTION notification for each ordering provider identified to receive this notification, or train them to do it themselves. Use the Enable/Disable Notifications option of the NOTIFICATION MGMT MENU, ORB NOT MGR MENU.
- ☐ 4. Turn on the CONSULT/REQUEST CANCEL/HOLD notification for each ordering provider identified to receive this notification, or train them to do it themselves. Use the Enable/Disable Notifications option of the NOTIFICATION MGMT MENU, ORB NOT MGR MENU.
- ☐ 5. Turn on the CONSULT/REQUEST UPDATED notification for each ordering provider identified to receive this notification, or train them to do it themselves. Use the Enable/Disable Notifications option of the NOTIFICATION MGMT MENU, ORB NOT MGR MENU.
- ☐ 6. Define the Service hierarchy in the Request Services File (#123.5) with the associated users and service printer. Use the “Set up Consult Services” option, GMRC SETUP REQUEST SERVICES.



NOTE: You must NOT use VA FileMan to modify services in the hierarchy. The Consult/Request Tracking interface to CPRS depends on the services being defined using the GMRC SETUP REQUEST SERVICES option.

- ☐ 7. Assign the Setup Service Users GMRC SETUP SERVICE USERS option to the users permitted to manage service users.
- ☐ 8. Assign the following two options to Service update users’ primary or secondary menu option: Consult Tracking [GMRC SERVICE TRACKING] and Service Consults Pending Resolution [GMRC RPT PENDING CONSULTS].

TIU Setup

☐ 9. Plan your hospital's TIU hierarchy. See the *Text Integration Utility (TIU) Implementation Guide* for details on this step.

☐ 10. If you have not already done so, install TIU*1*4.

☐ 11. Run the TIU DEFINE CONSULTS option.



NOTE: If you do not run the TIU DEFINE CONSULTS option, no status update takes place when the TIU note is entered.

☐ 12. Enter the rest of your planned TIU document hierarchy using the Manager Document Definition Menu.

☐ 13. Define consult document parameters (as recommended on page 51 of this manual) using the Document Parameter Edit option.



NOTE: We particularly recommend entering Yes to ALLOW >1 RECORDS PER VISIT.

☐ 14. Check the value for parameter GMRC CONSULT LIST DAYS. The parameter controls how many days are searched when looking for consult to associate with a progress note. The default is 365 days.

Appendix B: Consult Tracking Worksheets

In this section there are several worksheets that may be removed from the manual and copied. These worksheets assist you in setting up each Service/Specialty and in setting up Service Notification assignments for individuals or teams who will be receiving consult results.

The first and second worksheets may be used for small Services, with very few Specialty services under them, who will be receiving on-line consults and/or procedure requests.

The third and fourth worksheets should be used by large complex Services with multiple Specialty services under them, who will be receiving on-line consults and/or procedure requests.

Consult Services Worksheet

Service Set up

Service/Specialty Name: _____

Abbreviated Print Name: _____

This optional abbreviation are used when building notifications.

Synonyms: _____

These optional abbreviations are used when selecting the service.

Service Usage: ☐ Blank ☐ Grouper ☐ Tracking

Service Printer: _____

A service may define a device to which its Consult forms automatically print.

Notify Service on DC: ☐ Yes ☐ No

Update users of a service may be notified when a consult is discontinued.

Reprint 513 on DC: ☐ Yes ☐ No

The SF 513 may be reprinted to the consulting service when a consult is discontinued.

Provisional DX Prompt: ☐ Required ☐ Optional ☐ Suppressed

Set whether a diagnosis is required, optional, or suppressed when ordering.

Provisional DX Input: ☐ Lexicon ☐ Free Text

If the diagnosis is not suppressed, specifies whether the diagnosis must be from the Clinical Lexicon or not.

Prerequisite:

Prerequisite information may be displayed to the consult ordering physician before proceeding with the ordering of a consult to this service. This may include TIU fields (enclosed in /).

Default Reason for Request:

Boilerplate may be supplied for the reason for request. This may include TIU fields (enclosed in /).

Restrict Default Reason Edit: ☐ Unrestricted ☐ No Editing ☐ Ask

Determines if the boilerplate can be edited by the ordering physician.

Page 1 of 3

Consult Services Worksheet

Notification Users

Service Individual to Notify: _____

Individual who needs to receive Notifications for this service should be listed here.

Service Team to Notify:

All full update users to receive notifications need to be defined on one of these teams.

Notification by Pt Location:

Locations in which all patients are considered belonging to this service should be listed here. For each location, you can specify one individual and one team to be notified.

Location _____ Individual _____
Team _____

Location _____ Individual _____
Team _____

Process Parents for Notifications: ☐ Yes ☐ No

Determines whether the notification recipients defined for the parent service should be notified of actions on consults directed to this service.

Update Users

Update Users without Notifications:

Service users who should be able to perform update capabilities, but DO NOT receive notifications should be defined here. The same algorithm is used to determine the recipients for all types of consult notifications.

Update Teams without Notifications:

Update User Class without Notifications:

Consult Services Worksheet

Administrative Update Users:

Users who may close consults without attaching a TIU note are defined here.

_____ Notification Recipient?

☐ Yes ☐ No

_____ Notification Recipient?

☐ Yes ☐ No

Administrative Update Teams:

Teams whose members may close consults without attaching a TIU note are defined here.

_____ Notification Recipient?

☐ Yes ☐ No

_____ Notification Recipient?

☐ Yes ☐ No

Process Parents for Updates:

Determines whether the update users defined for the parent service should have the same update privileges on consults directed to this service.

☐ Yes ☐ No

Special Update Individual:

A user who is allowed to perform batch updating of status on consults.

Unrestricted Access:

If marked yes, any user may have update access to this service.

Yes ☐ No

Miscellaneous

Sub-Service Specialty:

Services that are below this one in the Consults Service Hierarchy.

Appendix C: Request Services Distributed with Consults



Note: The distributed services are those services shown below with an asterisk(*). The hierarchy shown below via the sub-service specialty column is not distributed. Use the Set up Consults Services option to build the hierarchy for your service. Remember, the top of the hierarchy must be ALL SERVICES.

REQUEST SERVICES LIST

NAME	SUB-SERVICE SPECIALTY
*ALL SERVICES	
	MEDICINE
	PHARMACY SERVICE
*CARDIOLOGY	
*GASTROENTEROLOGY	
*HEMATOLOGY	
*MEDICINE	
	CARDIOLOGY
	GASTROENTEROLOGY
	HEMATOLOGY
	PULMONARY
	RHEUMATOLOGY
*PHARMACY SERVICE	
*PULMONARY	
*RHEUMATOLOGY	

The indented services represent sub-service/specialties making up the hierarchy.



Caution: New services must be added to ALL SERVICES if not a sub-service specialty.

Appendix D: Package Security

Service Update and Tracking Security

You can use the Consult Service User Management option, in conjunction with availability to various menus and options, to control access to Consults functionality. The menus that can be provided are:

- Consult Service Tracking
- Pharmacy Consult User

The Consult Service Tracking menu provides access to basic consult tracking functions and reports, but can also provide complete update capabilities if you have been granted update privileges by your ADPAC.

Individual options in the Consults package that may be useful to users, and what access they provide, are detailed in the following table:

Option	Services
Consult Service Tracking	Tracking and/or update functionality depending upon your individual privileges.
Pharmacy TPN Consults	Tracking, and update functionality.
Completion Time Statistics	Reporting.
Service Consults Pending Resolution	Reporting.

With the GMRC Service User Management option you can set users up to be update users for one or more services at your hospital. In addition, you can grant the ability to receive consult notifications according to criteria outlined in the following table:

Category	Notifications Received
UPDATE USERS W/O NOTIFICATIONS	Unless otherwise set up, will not receive notifications.
SERVICE INDIVIDUAL TO NOTIFY	Receive consult notifications for your service.
SERVICE TEAM TO NOTIFY	Receive consult notifications for your service. <i>These teams send notifications regardless of the patients contained on them.</i>
NOTIFICATION BY PT LOCATION INDIVIDUAL TO NOTIFY	Receive all consult notifications for your service for patients in a specified ward.
NOTIFICATION BY PT LOCATION TEAM TO NOTIFY	Receive consult notifications for patients in a specified ward.

These categories are not mutually exclusive, meaning a user may receive notifications based on being present on one or more of the lists detailed in the preceding table.

The following table lists privileges a user may want and who that privilege is granted to:

Privilege	Granted
Originate a consult	Anyone with access to CPRS
Sign a consult	Anyone who can sign an order
Change a consult status	Anyone with update privileges
View or print a consult	Anyone with the Consult Service Tracking option or access to CPRS.

In summary, update user capabilities vary depending on

- 1) The option(s) that you are assigned.
- 2) Privileges granted in the Consults Service User Management option.

Menu/Option Access

The following menus/options are available with the Consults package for distribution to users.

Option Name	File
GMRC MGR	19
GMRC GENERAL SERVICE USER	19
GMRC PHARMACY USER	19
GMRC SERVICE TRACKING	19

GMRC TPN CONSULTS	19
GMRC RPT PENDING CONSULTS	19
GMRC REVIEW SCREEN	101

GMRC MGR menu

This option should be given to IRMS/ADPAC personnel. It is composed of all options distributed with the Consults package.

GMRC GENERAL SERVICE USER menu

This menu provides access to the most commonly used Consults options that a general user, other than Medicine, would be interested in. This option should be added to their primary or secondary menu options.

GMRC PHARMACY USER menu

This menu provides access to the most commonly used Consults options that a user of the Pharmacy TPN option would be interested in. This option should be added to their primary or secondary menu options.

GMRC SERVICE TRACKING option

The Consult Service Tracking (GMRC SERVICE TRACKING) option may be given to “review only” AND service “update” users. This option should be added to their primary or secondary menu options.

You may want to add the GMRC SERVICE TRACKING option to the OR MAIN MENU options in the Option file (#19) as well, since users of these OR options are likely interested in reviewing consult/request activities services may have taken.

GMRC PHARMACY TPN CONSULTS option

Pharmacy personnel who need to be able to update File 123, REQUEST/CONSULTATION file, with service activity tracking updates should have the GMRC PHARMACY TPN CONSULTS option added to their primary or secondary menu options.

Security Keys

File Security

The following is a list of recommended VA FileMan access codes associated with each file contained in the Consults package:

File Number	File Name	DD Access	RD Access	WR Access	DEL Access	LAYGO Access
(#123)	Request/Consultation					
(#123.1)	Request Action Types					
(#123.3)	GMRC Procedures					
(#123.5)	Request Services				@	

Service Update Tracking Security

The Consults Package is distributed for *all* Services at a facility to track consult/request activity. Security at the Service level is set up by IRMS/ADPAC personnel in the Request Services file (#123.5). Specific fields which provide security restrictions include:

GMRCACTM PHARMACY PKG MENU

This is the PROTOCOL ACTION MENU exported for use by Pharmacy Service personnel to process Pharmacy TPN Consults.

Routine Descriptions

GMRC101	Create Protocol entries for OE/RR ADD orders screens.
GMRC101C	Create Protocol entries for OE/RR ADD orders screens (Continued)
GMRC101H	Set up HL-7 message to update OERR orderable items file with new consult type.
GMRC15EN	Environment check GMRC*3*15
GMRC513U	Obsolete utility deleted with GMRC*3*4.
GMRC7L	List Template Exporter.
GMRCA1	Actions taken from Review Screens.
GMRCA2	Select prompt for processing actions.
GMRCAAC	Administrative Complete action consult logic.
GMRCACMT	Comment Action and alerting.
GMRCACTM	Set GMRCACTM with action menu based on Service.
GMRCADC	Discontinue Action taken from List Manager.
GMRCAFRD	Forward Req (FR) Action from Review Screen.
GMRCALOR	Process a consult from an alert notification.
GMRCALRT	List Manager alert action interface.
GMRCAR	Associate Results (AR) Action taken from Review Screen.
GMRCART	Result display logic.
GMRCASF	Significant Findings Action.
GMRCAST	Select OE/RR Status (ST) Action.
GMRCASV	Build ^TMP("GMRCS" of Svc(s)/Specialties.
GMRCASV1	Hierarchy Mgmt cont'd.
GMRCAU	Action Utilities.
GMRCCLR	Kill-off all variables used for consults tracking.
GMRC CPRS	Routine To Give Actions For Consults From The OE/RR Menu's.
GMRCDDX	AC cross-referenc logic for 123.5, field .01.
GMRCDIS	LM routine to disassociate med results

GMRCDPCK	Check for a duplicate Consult/Request that has a status of active, pending or scheduled.
GMRCDRFR	Default reason for request utils.
GMRCEDIT	Edit cancelled consult-main driver.
GMRCEDT1	Edit a consult and re-send as new.
GMRCEDT2	Resubmit a cancelled consult.
GMRCEDT3	For a Cancelled Consult - File edited data for tracking consult.
GMRCEDT4	Utilities for editing fields.
GMRCFX23	Consult postinit file maintenance.
GMRCGUIA	File Consult actions from GUI.
GMRCGUIB	GUI actions for consults.3
GMRCGUIC	GUI actions for editing consults.
GMRCGUIU	Kill off variables from GUI routines.
GMRCHK	GMRC check for programmer access.
GMRCHL7	HL-7 formatting routine for consult information to be passed to OER.
GMRCHL72	HL-7 formats OBX and NTE segments.
GMRCHL7A	Receive HL-7 Message form OERR and break it into its components and store it in File 123.
GMRCHL7B	Process order parameters from ^GMRCHL7A and place data into ^GMR(123 global.
GMRCHL7U	Utilities associated with HL7 messages.
GMRCHLP	List Manager help logic.
GMRCMCP	List Manager Format Routine To Collect Medicine Package Consults and format them for display by List Manager.
GMRCMED	Medicine interface routines.
GMRCMED1	Extract medicine results for consult tracking.
GMRCMENU	Select List Manager menu for user characteristics.
GMRCMER	Print Medicine Results in List Manager Format.
GMRCMP	List Manager routine: Medical Service and sub-specialty consults.

GMRCMSS	Setup Request Services.
GMRCMU	Add protocols to GMRC protocol menus.
GMRCNOTF	Notification recipient utilities.
GMRCP	Message audit and status process.
GMRCP5	Print Consult form 513 (main entry).
GMRCP513	Print Consult form 513.
GMRCP5A	Print Consult form 513 (Gather Data - TIU Results).
GMRCP5B	Print Consult form 513 (Gather Data - Footers, Provisional Diagnosis and Reason For Request).
GMRCP5C	Print Consult form 513 (Assemble Segments And Print).
GMRCP5D	Print Consult form 513 (Gather Data - Addendums, Headers, Service reports and Comments).
GMRCPC	List Manager Routine: Collect and display consults by service and status.
GMRCPC1	List Manager Routine: Collect and display consults by service and status.
GMRCPH	Process XQORM helps.
GMRCPOR	Get DOC,LOC,TS in interactive defaults.
GMRCPOS	Consult postinit file maintenance.
GMRCPOS1	Post init to move Services from file 123.5 to the orderable items file, 101.43, and orderables in file 101 to file 101.43.
GMRCPOS2	Consult postinit file maintenance.
GMRCPOST	Post init driver routine.
GMRCPP	Print GMRC consult/request tracking protocols - List Manager routine.
GMRCPR	GMRC List Manager Routine - Get information for abbreviated print of GMRC protocols and format for List Manager.
GMRCPR0	Data Entry Promptint actions.
GMRCPREF	Setup package/procedure protocols.
GMRCPROT	Consult postinit file maintenance.
GMRCPRP	Set protocol information into ^TMP global for print and display by List Manager.

GMRCPRPS	List Manager GMRC Routine -- List GMRC (Consults/Request) Protocols in abbreviated form.
GMRCPS	Select Service/specialty to send Consult to.
GMRCPSEL	Select Range Of Items From List.
GMRCPURG	Purge orders from the Order File 100.
GMRCPX	Select a new pharmacy patient for list manager consult tracking display.
GMRCPZ	GMRC List Manager Routine -- Main menu actions for Pharmacy consults request tracking.
GMRCQC	GMRC List Manager routine to print Consults pending resolution for QC purposes.
GMRCQCST	Gather all consults for QC that do not have status of discontinued, complete, or expired.
GMRCR	Driver for reviewing patient consult/requests - Used by Medicine Package to link Consults to Medicine results.
GMRCR0	Add original consult via backdoor service.
GMRCR06	Complete a consult/request.
GMRCRA	Build ^TMP("GMRCR",\$J, array of consults.
GMRCREXT	Clean-up all variables and ^TMP globals upon exit.
GMRCRFX	Consult postinit save GMRCR protocol file links.
GMRCRPOS	Consult postinit save GMRCR protocol file links.2
GM RCS	Review consults by Patient and Service.
GM RCSL	Active Consults by Service.
GM RCSLDT	Get a consults detailed tracking history formatted for List Manager.
GM RCSLM	List Mgr routine for consult tracking list.
GM RCSLM1	Gather data and format ^TMP global for consult tracking Silent call for use by List Manager and GUI.
GM RCSLM2	List Manager routine - Detailed consult display and printing.
GM RCSLM3	Extract medicine results for consult tracking.
GM RCSLM4	List Manager routine - Activity Log Detailed Display.
GM RCSLMA	List Manager protocol entry, exit actions.
GM RCSLMU	Utilities for displaying consults in List manager.

GMRCSLMV	Set Video attributes for list manager screens.
GMRCSPD	Change Date Range in CSLT Tracking Module.
GMRCSRVS	Add/Edit services in File 123.5.
GMRCSSP	List Manager Format Routine To Collect Pharmacy TPN Consults that are Not Completed Or Have Been Discontinued.
GMRCST	Statistics on how how long to complete consult/requests for a service.
GMRCST0	Statistics on how how long to complete consult/requests for a service.
GMRCST00	Statistics on how how long to complete consult/requests for a service.
GMRCSTAT	List Manager Ancilliary routine - Restrict display of consults to a given status or satures on List Manager Screen.
GMRCSTL1	List Manager Format Routine - Get Active Consults by service - pending,active,scheduled,incomplete,etc.
GMRCSTL2	List Manager Format Routine - Get Active Consults by service - pending,active,scheduled,incomplete,etc.
GMRCSTLM	List Manager Format Routine - Get Active Consults by service - pending,active,scheduled,incomplete,etc.
GMRCSTS	Group update status of consult and order.
GMRCSTS1	Group update of consults cont'd.
GMRCSTS2	Change status based on result activity.
GMRCSTSI	Special processing to change status of selected consult and order
GMRCSTSU	Change status based on current order status.
GMRCSTSZ	Loop "AE" and get entries, dump in ^TMP.
GMRCSTU	Statistic Utilities for Consult/Request Package.
GMRCSTU1	Statistic Utilities for Consult/Request Package.
GMRCSUBS	Routine to check if a Service has more that one patient service.
GMRCVCU	Utility to put services from file 123.5 into file 101.43 when service exists in 123.5 but not.
GMRCT	Get DUZ's of users for notification to service.
GMRCTIU	TIU utilities for exchanging info with Consults.
GMRCTIU1	More CT/TIU interface modules.

GMRCTIU2	Enter TIU Browse with DFN and TIUDA.7
GMRCTIU3	Extract medicine results for consults tracking.
GMRCTIUA	Add the TIU note to the results multiple.
GMRCTIUE	Complete/Update TIU notes.
GMRCTIUL	Get list of existing results for consults.
GMRCTIUP	TIU utilities for exchanging info with Consults.
GMRCTU	Consults - Terminated users/remove pointers.
GMRCTU1	Get DD Info.
GMRCU	Consult/Request Utilities.
GMRCUTIL	Utilities for formatting word procesing fields and setting into ^TMP("GMRCR" globals for use by List Manager routines.
GMRCUTL1	General Utilities.
GMRCXQ	Routine to allow follow-up on legacy alerts.
GMRCYP15	Convert procedures from 101 to 123.3
GMRCYP16	PRE/POST INSTALL FOR GMRC*3*16.
GMRCYP18	Post Install for patch 18.
GMRCYP7	Consult clean-up unreleased at test sites.
GMRCYP8	Post Install for GMRC*3*8.

Routine Mapping

For systems that can use routine mapping, this is a list of routines in the Consults package that should be mapped.

Routine Prefix	Routine Usage	
GMRCA*	Action routines	
GMRCP*	CPRS interface routines	
GMRCR*	Consults review/tracking routines	
GM RCS	Service entry point to review/tracking	routines
GMRCU*	Utility routines	
GMRCXQ	View Alerts followup	

The asterisk (*) is a wild card specification. Any routines beginning with the characters before the asterisks are included in the set.

The other routines do not need to be mapped due to their smaller frequency of usage.

Appendix C: Algorithms

User Authority

The flow chart on the next page represents processing accomplished to determine the user authority for any given user. This authority can be check by using the Determine Users' Update Authority (UA) action on the Consult Management Menu.

Example:

```
Select Consult Management Option: ua  Determine users' update authority

This option will allow you to check a users update authority for any given
service in the consults hierarchy.  If the PROCESS PARENTS FOR UPDATES field
is set to YES, all ancestors of the selected service will be checked.
The type of update authority and the service to which they are assigned will
be displayed.

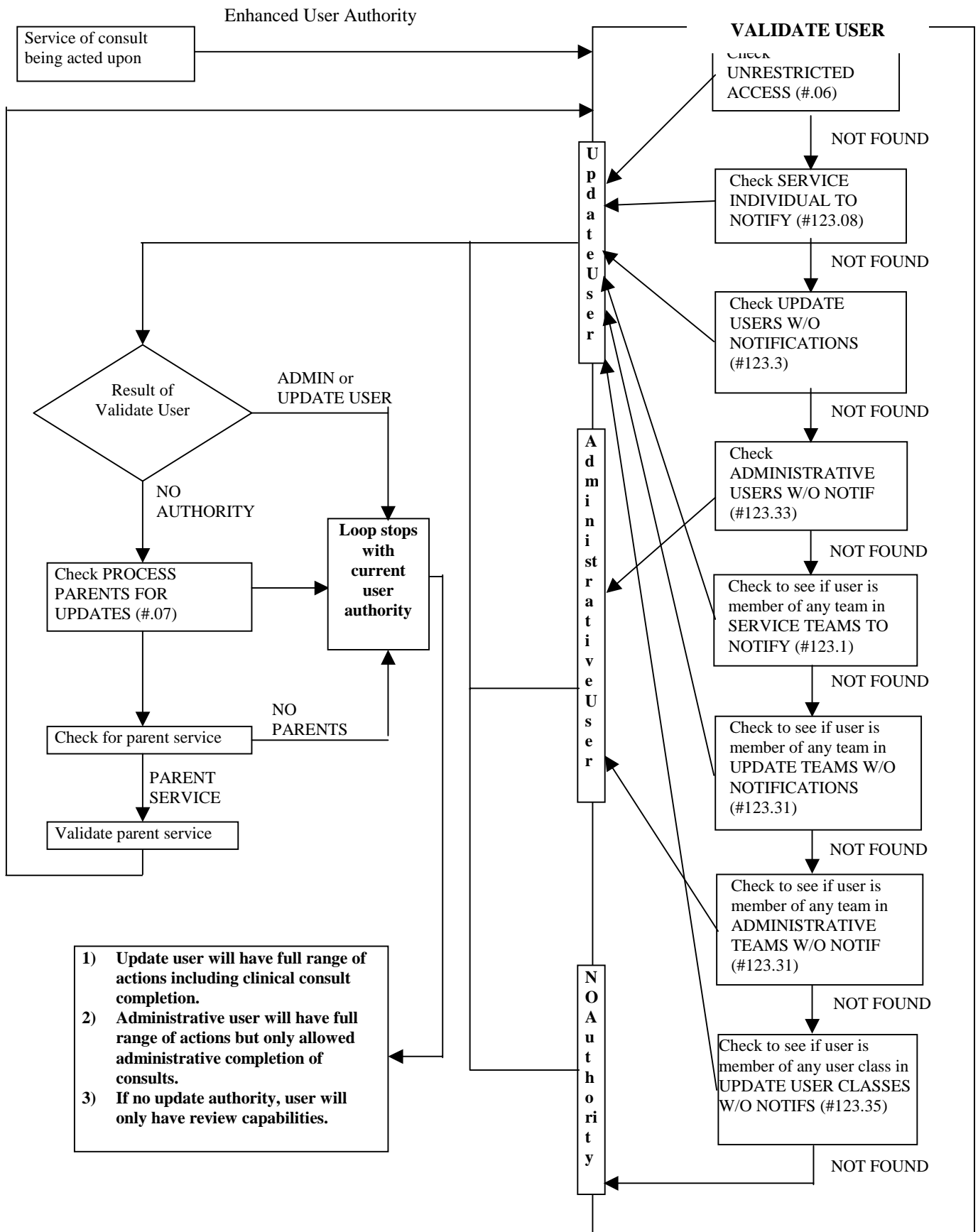
Select Consult Service: arth  Arthritis
Choose user to check for update status: snow,CHARLES R.          CRS          PHY
SICIAN

This user is an update user for: Arthritis
via the UPDATE TEAMS W/O NOTIFICATIONS field.

Select Consult Service: arth  Arthritis
Choose user to check for update status: welby,MARCUS            MW          CHIEF,
MEDICAL SERVICE

This user has no update authority

Select Consult Service:
```



Index

- Abbreviated Print Name, 11
- Action, 17, 43, 105
- Actions, 9, 69
- Administrative Complete, 26
- Administrative Update Team, 13
- Administrative Update User, 13
- ADPAC, 2, 3, 43, 107, 111, 123, 124
- Archiving and Purging, 77
- Audience, 1
- Back Door Consults, 91
- Cancel (DY), 43
- Checklist, 2, 5, 107
- Complete (CT), 43
- Complete action, 44
- Consult, 105
- Consult Tracking Reports, 21
- Consult Service Tracking, 43
- Consult Tracking Worksheets, 113
- CONSULT/REQUEST CANCEL/HOLD, 42
- CONSULT/REQUEST RESOLUTION, 42
- CONSULT/REQUEST UPDATED, 42
- Correcting Misdirected Results, 55
- Create Document Definitions, 50
- Cross-References, 71
- Default Reason For Request, 12
- Define Service Hierarchy, 6
- Determine Service Functionality, 9
- Disabled, 11
- Discontinue (DC), 43
- Discontinued Orders, 105
- Document Hierarchies, 46
- Exported Menus, 69
- External Relations, 81
- File Globals, 65
- Files, 64, 102
- Forward (FR), 43
- Functionality, 43
- Globals, 102
- Glossary, 105
- GMRC CONSULT LIST DAYS, 44, 61, 112
- GMRC MGR, 123
- GMRC PHARMACY TPN CONSULTS, 124
- GMRC PHARMACY USER menu, 124
- GMRC SERVICE TRACKING, 124
- GMRC SETUP REQUEST SERVICES, 6, 69, 111
- Grouper Only, 11
- HL7 Fields, 85
- Implementation and Maintenance, 5
- Install, Planning, and Implementation Checklist, 5
- Internal Relations, 83
- Introduction, 1
- Link to Request action, 55
- Linking Medicine Results, 60
- Make Addendum (MA), 43
- Medicine Interface, 58
- Menu/Option Access, 122
- Menu/Options, 103
- NEW SERVICE CONSULT/REQUEST, 42
- Notification by Pt Location, 12
- Notify Service on DC, 11
- On-Line Documentation, 102
- Order, 105
- Order Cancellation, 105
- Order Discontinuation, 105
- Order Event Messages, 88
- Orderable Item Updates, 94, 96
- Overview, 2
- Package Interface, 85
- Package Orientation, 3
- Package Security, 121
- Package-Wide Variables, 83
- Prerequisite, 12
- Private DBIA Agreements, 82
- Procedure Request, 106
- Process Parents for Notifs, 12
- Process Parents for Updates, 13
- PROVISIONAL DX INPUT, 12
- Provisional DX Prompt, 12
- Purpose, 1
- Receive (RC), 43
- Recommended Document Hierarchies, 46
- Removing Medicine Results, 60
- Reprint 513 on DC, 11
- Request Services, 117
- REQUEST SERVICES (123.5) file, 6
- REQUEST SERVICES file (#123.5), 64, 65, 124
- REQUEST SERVICES File (123.5), 111
- REQUEST SERVICES file (123.5), 6, 73
- REQUEST SERVICES file (123.5), 9
- Requestor, 106
- Restrict Default Reason Edit, 12
- Result, 106
- Result Mgmt User Class, 13
- Routine Mapping, 132
- Routines, 102
- Schedule(SC), 43
- Scope of the Manual, 1
- Screen Context, 106
- Security, 122
- Security Keys, 124
- Select Service (SS), 43
- Service, 106
- Service Consults Pending Resolution, 22
- Service Individual to Notify, 12
- Service Name, 11
- Service Printer, 11

Service Team to Notify, 12
Service Update Tracking Security, 124
Service Usage, 11
Service User Management, 23
Services [GMRC SETUP REQUEST SERVICES, 9
Set Up Consult Services (SS), 17
signature
 without, 26
Significant Findings (SF), 43
Special Updates Individual, 13
Status Result, 106
Status Symbols, 106

Sub-Service/Specialty. *See*
Synonym, 11
Text Integration Utilities (TIU) Setup, 44
Text Integration Utility (TIU), 2
TIU Maintenance, 55
TIU Setup Options, 49
Tracking Only, 11
Unrestricted Access, 13
Update Teams W/O Notifications, 12
Update User Class W/O Notifs, 13
Update Users W/O Notifications, 12
XINDEX, 103